STORM DATA



"I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM INFORMATION RECEIVED AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801."

DIRECTOR NATIONAL CLIMATIC CENTER

	OCAL	PATH	# T		OF SONS		ATED†				DCAL.	PATH	Ħ.		OF SONS		ATED†	
PLACE	DATE TIME - LOCAL STANDARD	LENGTH OF	WIDTH OF PATH (YARDS)	KILLED	NJURED .	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
ALABAMA	4 3:45		1	0		0	0	Waterspout	ALASKA Tanana Valley	14]			0	1		į	
aldwin County	!!.	i	- ighted o	i	i ¦		İ	n of Mobile Bay	lanana valley	14	į				0	3 	7	Heavy rain and flash floodi
	by the publi	c It	vas loc	ated	bff F	oint (lear :	oving south.		Unst aga:	able norti	weste orth s	ly flo	alo the	ft pa	cked i ka Rai	pavy t ke on	nunderstorms up the evening of
obile County	12 8:00a	ļ	-	0		0	°	Waterspout		Jul: Big	14. The Delta, was	Delta repo	River, ted bar	which kful	h flo	ws int	b the	Tanana River at 11 tributaries
	A waterspout by the bride	e ende	ighted n	iear t iphin	he we Islan	d brid	ge.	auphin Island		and	was over	he Ri	hardso	ф Нig	hway	near 1	he Don	t over its band nelly camparous understorm rais
ullock County	12 6:00	, - :	-	Ó	0	4	0.	Flash flood										mage was minor.
	within a con	ple of	hours.	Many	home	s and	other	Union Springs buildings were	Cook Inlet	1	9:45AM AS		-	0.	0	0	i	Funnel Cloud
	flooded and Strong winds	some a and 1	reas wer ightning	re und	er a	foot o	r more	of water. knocking out		off	hore, whi	e flo	v aloft	was	veste	rly,	ust ah	k Inlet was mos
	power in sor	ł	s . 	0	0			 		app	coaching t	of al	et. S	tell	ite ş	icture	s show	he area with the ed a nearly sol An observer
Mobile County	16 3:20	i	-	i i	i l		i	Bayou La Batre,		repo	rted a fu	nel c	Loud ab	but 2	5 mil	es NN	of Ni	nilchik at 9:45 17-minute lifet
	moving south						!		Copper River Basin		1630 AST	?	?	0	0	0	0	Funnel Cloud
Mobile County	21 8:15	!	-	0	0	.0	0	Waterspout		A co	ld low al	ft in	the no	thea	j jst Gu	of Lead	Alaska	caused unstabl
	A waterspout				publ	ic and	Coas	Guard just off		afte	rnoon of	July 2	. Sur	face	tempe	rature	s were	ver Basin on th in the upper 6 shted north of
Baldwin County	21 12:1.	5p -	-	0	0	0	0	Waterspout		Snot	shoe Lake observer	due i	o hill ot det	s bet ermin	veen e of	the of	server nnel c	and the cloud, loud touched th
	The Coast G	ard re	ported to	two wa	tersp	outs	ix mi	les east of		grou	and. Sate	llite tral	lcture:	s sho	ved v	idespi	ead cu thunde	mulonimbus clou rstorm and hail
Mobile County	22 11:2	Ba 3	50	0	0	0	0	Waterspout-	<u> </u> -	repo	rred at St	chora	Lake;	at	about 	1700	AST, a	thunderstorm w
	<u> </u>		L.,	j - the	1	l l	l Lart a	Tornado f Mobile Bay. It	ARIZONA	,,	Afternoor) 0		0	10	Hail
	wasisighted	by the	Westher	ri Serv	tice (ffice	in Mo	Hile and by the Hiefly became a	Pima County	Gol	f ball siz	e hail	fell d	urin	as	Evere	hunde	 rstorm near the
	tormado as	iti cros	sed the	Batt1	lesh1p	Park	ay an	U.S. highway 90,		Pal	isades Rar	ger St	ation i	in th	Cor	pnado	Mation	al Forest.
obile County	24 2:25		-	0	0	0	0	Wind Gust	Greater Phoenix Area Maricopa County	1	6:30-7:30	1		0		5 	i	Wind, Lightnir
	A tugboat r					t dur	ing a	thunderstorm,		cau	sed extens	ive da	mage in	the	Grea	ter Ph	oenix .	pre thunderston Area. The hard 15 persons were
arshall County	24 p	-	-	0		5	0	Lightning		inj	pred by fl	ying d	lass as	30	large	windo	vs wer	e shattered. he larger ones
								hightning from a		A	mall plane	crasi	-landed	1 les	s tha	n one	pile f	as blown 500 fe rom Scottsdale
	northwest o							qut 10 miles Nve Points.		to	terminal t	uildi	igs and	hang	ITS.	Elsev	here o	rable roof dama wer the area, t damaged roofs
Saldwin County	26 a	-	-	1	0	6	6	Flash flood		mot								g caused numero
	eastern sho	re of M	b∮ile Ba	ay as	thund	ersto	rms rei	rain fell on the ained nearly	Maricopa County		2:10 a.			ļ ! 0	0		0	Hail
	7a mear Fai:	rhope.	A Daphn	ne man	drow	phed w	nen his	l between 2a and s van fell into		Gol	f ball si	e hai	fell (urin	gas	evere	thunde	rstorm about 15
		ora and	pecans;	; at 1	east	25 hor	njes and	d other buildings ere also damaged,	Pinal County		es south	r sky	HATDOT	Inte	i	buara 1		Funnel Cloud
	and a swimm	ooq \$m	1 washed	d away	, Nu	merow	stre	ets and three x feet of water		1	i	d was	report	i	1	İ		by Maricopa
	house, dama							ns destroyed one to a power sub-		16	miles soul	h-sou	hwest	þf Sk	Haz			h a hook echo ional Airport,
awrence County	station.		ļ_		i ! o			Wind	ARKANSAS	or	just insif	ie or i	inal C	punty 				
dawrence county	j	1	mwinds	1	1	i	ŀ	ton, Trees were	State of Arkansas	Late	June			0	0	°8	c	Heat and Droug
	uprooted; podamaged. S	ower kn ome str	ocked or eets in	the c	ante Lty w	nnas, ere u	awnin der o	gs, and roofs were ne foot of water		Wid-	to July							
	due to the	1	ain from	ļ	thund 0	ersto:	i o			Ext	emely hot	and di	y west!	er p	Lague	d the	state,	especially the
Jefferson County	31 12:1:	- }	e thumde	0	1.			Wind/lightning prous trees and		Inte	. Tavarka	ma tot	orted d	nwim.				F 100 decreases a
	powerlines side of the	in the	Birmingh One car	hamar rjand	ea, c a hou	pinly pe su	on the	e south and east minor damage from		live esti	stock, est	ecial expe	y chick ted to	ens,	were	the h	ardest llion	cotton crops a hit. Damage dollars. Sever as due to the h
	falling tre 25,000 peop	esi Li	ghtning.	. \$lso	knock	ed out	power	r and about		dry	ties in the	e sta	e were	decl	red	11east	er are	as due to the h
Etowah County	31 3:00p	-	-	0	0	4	0	Wind	North Little Rock - Pulaski County	2	2:10 p.			1	2	0	0	Lightning
								age roof, damaged		Thre	e women we	re str	uck by	ligh	ning	while	atten	ing a high sch
	east of Gad									inj	nion at Bu ured.	rns Pa	rk. Or	e wor	hen w	as kil	led an	the others we
		į				1			Five Miles South of		Between 4:00 p.&	1/2	200	0	0	2	0	Tornado
									Lonoke County		5:00 р.							
		į	İ			į	-			A to	ornado mov t docks, t	ing es rees,	st-sout and pow	heast er li	ward	touch	ed down	and damaged so
		!				!	İ	!	Clow - Hempstead County	3	2:40 p.			1	2	0	0	Lightning

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,		Į.	PATH	#		OF SONS		ATED†	i	. 1		JA .	РАТН	Į	NO. PERS		ESTIM.		
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PA	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PA	WIDTH OF PATH (YARDS)	צוררפס	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
ARKANSAS (con	tinu	ed)	<u></u>			i				CALIFORNIA									
Near Hazen to Carlisle - Lonoke and Prairie Counties	3	3:30 p. to 3:38 p.							Funnel Cloud	NORTHERN & CENT	RAL		NONE	REPOR	TED				
Mineral Springs to	A f	4:00 p.	d movi	ng sout	hwest 0	ward 0	was so	en by	several people.	CALIFORNIA SOUTHERN Southern Californ	ia						?		
Seven Miles South of Mineral Springs - Howard County		4:15 p.								Bishop,Ca.	24	40 kno	 t win 	 pigust 	dam	aged	Sier	ra Pa	cific hangar do
	sout	rnado tou hward thr reported	dugh o	en cour	try.	ige o	r town	and and	boved slowly window damage	COLORADO Northeast Foothills	A th	Collins.	wind Gusts	of 69	MPH n	60 N	PH at ed at	Wellir	Wind gusts Ills campus in igton. Wind
Batesville Country Club - Independence County	7	Mid- Afternoo	†						Funnel Cloud	Salida	١.	1200		20		اہا	Ι,	_	fort Collins. Dust Devil
independence county	A f	nnel clou	d movi	ag eastr	ard t	as s	potted	by th	e owner of the	Surre	A po	erful twi	ster (F roof	'Sundev	tī," mobil	bra le ho	dust o	evil 1	rom cloudless ng some rafters
Six Miles North of	go1:	course p	**	25	0	0	3	0	Tornado		200 area brea	eet into immediate king a tre	the ai ly nor e.	r to th th of t	e nor he ho	th. me, i	The to then to	ister uched	skipped the down briefly,
Center Ridge - Conway County	 - -	-11 *	200		hone	runrd	touch	ad dos	n briefly and	Southeast Weld County		Evening damaged c	rops n	 ear Rog	0 j jgen. i	0	?	0	 Hail
	des	troyed a c	hicken	house.	Dam	age, w	as est	imated	at 4 thousand	Salida	5 A "S and	1430 Indevil" (ive wroug	dry tw	30 (Ister) In posts	0 rippe	0 d awa	y a p	? lastic	Dust-Devil patio roof
Peach Orchard - Clay County	11	Morning			1		0	0	lightning	Northeast Foothills and Plains	Hail	Afternoon	ches 1	n diame	0 ter d	0. amage	4 d cro	4 s in	Hail the vicinity
	wall	ked from h	ear ol	d man w se to h	is ca	۲.			y lightning as he]in P	erthoud, G latteville enver, and	. Hai	i to go	il fba i	1 512	e fel	in A	vere damaged rvada, northwest
West Memphis - Crittenden County	11	6:00 p. to 6:30 p.			0	0	6	?	Wind/Rain	Colorado Springs	Ha11 some	parts of	fball the ci	ity. Ha	≰il wa	p to s 8	nches	deep a	Hail one foot in at the Air Force
	win the	d and wate	r dama	ge. So damage.	uthla Pro	nd Gr perty	eyhour damag	d Rac: e was	inced considerable ing Park suffered estimated at been determined.	·	Colo	emy, and a rado Sprin ge, estima	gs. T	housand	s of	homes	and	ust no	ustained
Five Miles South of Prescott - Nevada County	14	2:45 p.			Ò	0	2	0	Wind	Huerfano County	F100	crop, irri	Oak C gation	reek ar ditche	0 Mothe s, he	0 Huer adga:	fano	? River (d live:	Heavy rains taused loss of stock watering
		nderstorms tained min			ds of	up t	o 60 t	mph.	A few buildings	Walsenburg	10 A to	1600 rnado touc	0.3 hed do	50 wn brie	fly 2	2 O mi roofi	4 es ea ed and	0 st of sever	Tornado Walsenburg,strikin al homes had
Five Miles Northeast of Magnolia - Columbia County	14	4:55 p.							Funnel Cloud		carp	ows blown s, thistle ets. 2 do ained mino	iors we	re suci	qea ou	IC OT	one n	puse.	al homes had into a radial tire iven into walls and 2 persons
	P1a	nt. No di			venen	t was	give	•	e Magnolia Power	Otero County	10 Exte	0100-0400 nsive flo	 ding :	l firom 3	0 to 6	i. I O Inche	i. 5 Sofr	5 ainfal	Heavy rains caused a loss and rivers near
Fourteen Miles South east of Forrest City - St. Francis County					0	0	5	5	Wind/Hail	Castle Rock	the 13	Arkansas i 1450	and Ape I I 0.3	esnapa 50	livers 0	and	jalong I I 3	Timpa 0	5 Creek. Tornado
	dan		ops and	severa					ich inflicted heavy mage was estimated	Northern Douglas		e homes an lel clouds l l 1250	were 1		d in 1	he a	rea.		hado. Several
Lake De Gray Marina - Clark County	.25	1:45 p.			0	4	4	0	Wind	County Extreme Northwest			0.3 sight	d just	0 south	of	? County	Line	Funnel clouds Road near Broadway. Tornado
	of	boat dock	For	r peopl	le wer	e inj	ured l	y fly	destroyed a set ing debris. Damage	Elbert County	One was	barn unro pverturned	fed, a						A camper trailer
Conway and Perry Counties	26	8:55 p.	J. d.		2.00				Funnel Clouds	Colorado Springs	Rair	Afternoom from thum Lation for a nearby.	dersto sevei	rms flo al hou	O oded ns. I	the	3 baseme hd gra	0 nt of yel sl	Heavy rain a hotel, forcing Ides covered some
	nes	t Overcup	, and I	L5 miles	sout	hvest	of M	ublic; errilt	mear Jerusalem, on. The funnels	San Miguel County	16 A wo	l 1600 man hiker	was ki	i 	ille i	1 takin tbove	0 g refu	be fro	Lightning a thunderstorm A companion
Just South of DeWITT -	27	5:25 p.	** 100	25	o aout	heast 0	0	0	Tornado/ Funnel Clouds	Denver	was 20	dazed and 1500	unable 	to rer	ember 0	the 1	event 0	0	Lightning
Arkansas County	A s	mall torn	ado to	ched do	wn br	iefly	in a	woode	d area. The tornado d down out of the	Eads (Kiowa County)	Denv 21	er. She v 1815-1900	as in	good co	ondit 0	on a	t a 10 3	cal ho	spital. I Tornado
Three Miles West of Jonesboro -	clc	9:30 p.	times 1	efore i	t fir	ally	touch	ed dow	Funnel Cloud	Eads	21	hll tornac 1815-1900 her small	0.3	50	0	0	0	0	Tornado ast of Eads.
Craighead County	A f	unnel clo	ud mov	Lug east	ward	was s	potte	d by a	police officer.	Northeast Foothills and Plains	21 Funr	Afternoor el clouds	were :	potted	0 near	0 We11	0 ngton	. 0 , east	Funnel clouds of Ault, east
										Colorado Springs	29 1 to stor incu	to on July	h hai 19. Da 19. Sthe 9th	i ifello image wo lhad bed inches o	0 O duld duld full frat	i 0 iuch	i ! 4 of the been o	? same reater	p. Rain and hail Rain and hail area hit by the if the damage minor flooding utes in the

COLORADO (continued) Doubles and Cliert Counties Control (Liert Counties 29 Miremon County of Place (Part Place			CAL	PATH	¥		OF SONS		ATED [†]				CAL	PATH	E	NO. PERS			ATED!	. JULY 1976
DOURSET COUNTY Parter Countries	PLACE	DATE	TIME - LO STANDARD	LENGTH OF P	KIDTH OF PA' (YARDS)	(וררפס	NJURED	PROPERTY	CROPS	0F	PLACE	DATE	TIME - LO STANDARD	LENGTH OF P (MILES)	WIDTH OF PA' (YARDS)	KILLED	INJURED	PROPERTY	CROPS	OF
Converted to the bilb. Self-terrorm Outside	Douglas and Elbert	tinu 29 Norn	ed) Afternoon ally dry (reek I	eds ove	0	O i	4 vashin	? g out	and heavy rain culverts and a		nued)	3:05PM EST		 	0	0		0	!
Parker 78 145 0.1 0.0 0.		of E	Afternoon y rain cau land areas	l Used f s. Se	l looding veral cr	in ti eeks	o te St and ous	5 . Char irriga homes.	0 les Me tion d Many	Heavy rain sa, Avondale and itches overflowed, culvert pipes	Monroe County	3 A la	6:58PM EST ge waters	pout i	ndicati	ng 15	ttle	moveme	¦ ¦	ŕ
Colorado Springs and half and 2 all stocks and shall said half and 2 all stocks and shall said half and 2 all stocks are stocked to the city. Sink arms suffered power dusting. Marchaest Footility and Part of the city. Sink arms suffered power dusting. Marchaest Footility and the city. Sink arms suffered power dusting. Marchaest Footility and the city. Sink arms suffered power dusting. Marchaest Footility and the city. Sink arms suffered power dusting. Marchaest Footility and the city. Sink arms suffered power dusting. Marchaest Footility and Sink arms suffered power dusting. Marchaest Footility and Sink arms suffered power dusting. Marchaest Footility and Sink arms suffered power dusting. Marchaest Footility and Sink arms suffered power dusting. Marchaest Footility and Sink arms suffered power dusting. Marchaest Footility and Sink arms suffered power dusting. Marchaest Footility and Sink arms suffered power dusting. Marchaest Footility and Sink arms suffered power dusting. Marchaest Footility and Sink arms suffered power dusting. Marchaest Footility and Sink arms suffered power dusting. Marchaest Footility and Sink arms suffered power dusting suffered power du	Parker _.	for 29	several h	0.3	30	0	0	0	0	Tornado	Dade County	Two	EST vaterspout les north			hward ulove	were r In	repor	ted by	the Coast Guard
Decided Points Simple Continue Simple Cont	Colorado Springs	31 Smail	Evening	i d 2 to	i 3 inche	0 0	0 rain	4 pelte	0 d the	Rain and hail		A 16 icut near whil	EST year-old were str Homestead the girl	uck by The 's con	lightn boy wa dition	2-yea ring a s crit	r-old t the tical	siste Cheke lly in actor	r, vis ka Sta ured a r after	iting from Connect to Recreation Area nd in a coma, emergency treat-
Nort-Old Saveral Lightharing strikes proble trees and short-old sale strikes proble trees and short-old sale sale sale sale sale sale sale sale	and Plains CONNECTICUT	31 Hai	 Afternoon piled up 	į		0 10	0 inche	? s betw	? een Ro	Hail ckford and Carr.		mout bolt his to h ing	n-to-mouth of lightn eft leg, ers. Ligh cross a w	resus ing ap and ei tning ooden	citatio parentl ther br struck boardwa	n and y strushed the the	hear uck t his roth ay fi	t mass the bost sister ar and tom tre	age to in the or ju sisten	the pair. The e forehead, ran to mped from his body as they were walk- itnesses said that
Sharen 25 1:30AM 0 0 0 3 0 Lightning 25 1:30AM 0 0 0 3 0 Lightning 25 1:30AM 0 0 0 3 0 Lightning 3 0 Lightning 3 0 Lightning 3 0 Lightning 3 0 Lightning 3 0 Lightning 3 0 Lightning 3 0 Lightning 3 0 Lightning 3 0 Lightning 3 0 Lightning 3 0 Lightning 3 0 Lightning 3 0 Lightning 3 0 Lightning 3 0 Lightning 3 0 Lightning 3 0 Lightning 3 0 Lightning 3 1 Lightning 3 Light	New Milford Norfolk Salisbury Thomaston Rocky Hill		i	ntnin A Rock damag	stri bouse Hill resu	ļ.	! 1		!			4 A fu	2:10PM EST EST cloud 2:28PM			0 	0 d nea	0 T Cap	0 Canav	Funnel aloft.
DELAWARE Rent Dounty 31 11:00 p- 0 0 0 Vinel, Lightning Windight Windigh	Woodbury .	A b	olt dest	l l l royed	a lar	ge t	ree	yhich	!			5	nel cloud 3:50PM EST			0	0	0	0	Funnel aloft.
with account 4 (CO) theme extracted. Lightening arraps the ToV antenna of those to Yields, regions in Add in the side of the house and dussified the stock of the content and dussified the stock of the content and dussified the stock of the content and dussified the stock of the content and dussified the stock of the stock of the content and dussified the stock of the	Kent County	31	ll:00 p Midnigh	+		0	0	. 4	!	, , ,	St. Lucie County	What stor root	EST was belie p was repo pd trees,	ved to rted b	be as y the p d sever	small colice cal ro	torn in ofs,	do as: Port Si porchi	ociate . Luc: es, an	d with a thunder- le. High winds up- fences, and blew
FLORIDA Nonroe County 1 10:30AM Nonroe County 1 10:30AM Nonroe County 1 10:30AM Nonroe County 2 1 10:30AM Nonroe County 1 10:30AM Nonroe County 1 10:30AM Nonroe County 2 1 10:30AM Nonroe County 3 2 1 10:30AM Nonroe County 4 10:30AM Nonroe County 1 10:30AM Nonroe County 3 2 10:30AM Nonroe County 4 10:30AM Nonroe County 4 10:30AM Nonroe County 1 10:30AM Nonroe County 1 10:30AM Nonroe County 1 10:30AM Nonroe County 1 10:30AM Nonroe County 1 10:30AM Nonroe County 1 10:30AM Nonroe County Nonroe Serval victoria de pastward was a wallist southeast of Herndon Airpert in Orlando. The only damage reported was a utility shed blowly 2000 yards. Froft its original least on the extension of the servation o		with of h ging hit mobi plet	percund 4 pme in Vic television by lightnoin te home of	000 h dla, r on set lng, s if four sinfal	omes affi ipping s In the corching dation measur	hole Cami a he west	. Li in en-W atin of W inch	shtnin the si yoming duct yoming es st	s stru de of secti on the caus	ck the T-V antenna the house and dama- on another house was wall. Wind blew ing almost a com- hir Force Base.	Manatee County	anie 6 A wa	i the stor	m, No	injuri	les we 0 1 by the	re r	eported 0	0	Waterspout
Orange County A small tornab touched down brightly 2 miles southeast of Herndon Airphr in Orlando. The only damage reported was a utility shed blow, 200 yards. from its original lecation. There were no injuryles. Several witnesses reported was a utility shed blow, 200 yards. from its original lecated. There were no injuryles. Several witnesses reported semisted the tornado touch down. Dade County		1 A wa	 10:30AM EST terspout t	l l l roving	 	0 d was	0 obs	0	0 mile	Waterspout north of Key Westa	•	A fu	CST pnel cloud 4:48PM EST	1/2	15	ay wa	s re	ported 0	0	nty Sheriff's Ofc.
Dade County 2 9:00AM	Orange County	A sm Airp blow	EST all tornad ort in Orl a 200 yar	 p touc lando ds fro	hed dow The on In its o	n bri ny da rigir	efly mage al l	2 mile report	s sout	theast of Herndon a utility shed re were no	Pinellas County	Clew leas 10	iston. The 10 minut 11:28AM	e fund es N	el repo lovement	rtedl , 1f	y wa: any '	touc vas un	ning ti known. O	e ground for at
EST A funnel cloud aloft was reported 7 miles east of Miami International Afrort. Volusia County Volusia Cou	-	A fu	EST nnel cloud t near Mia		was re	porte	d 10	miles	 east 	of Bakers Haulover	Martin County	10 A fu	3:20PM EST nnel cloud			0	0	0	0	Funnel aloft
A 26 year-old woman was sentously injured when she and her twin sister were struck by lightning while jogging along the water at New Sayrna Back. The woman was commisse, burned, and in critical condition after the lightning strike. She was struck in the head by the lightning bolk which toward was commanded and commanded and in the bead by the lightning bolk which the body. She remained in a comma for more than 10 days. The sigter was knocked to het knees by the bolt but suffered duly minor ear problems. Monroe County 2 5:48FM		a1 A	EST nnel cloud irport. 6:00PM	 aloft 	was re	porte	đ7 t	iles (ast of	Miami Internation+		A fu Ceia	EST nnel cloud 3:35PM	aloft	moving	nort	h wai	repon	rted a	outhwest of Terra
more than 10 days. The sister was knocked to her knees by the bolt but suffered chly minor ear prodices. Monroe County 2 5:48PM		sist New cond by t	year-old er were st Smyrna Bea ition afte he lightni n burns de	truck to the first the fing bol	dy light The woma lightni Ut which e front	ning n was ng st caus of he	while come rike ed or r boo	jogg tose, She e ear	lng ali burned was si lrum to he rema	ng the water at , and in critical truck in the head rupture and result ined in a coma for	Franklin County	seve Some ized inju	gusts to re thunder areas of street fl ries or si	storm town w coding	along w ere lit and po	tered wer di age.	eavy wit utage	rain a downers	nd mat d tree repor	Myers during a ble-sized hail. limbs, and local- ted. There were no
EST A waterspout was reported about one wile east of 21st street on Mind gusts to 60 mpl were reported at Naples Piet during a violent rainstorm. Several homes and commercial bbildings were damaged, and traffic was stalled in some areas where up to two inches of	Monroe County	more but 2	than 10 d suffered d 5:48PM EST	lays. nly mi	The sis	prot	as kr lems. O	ocked 0	to her	knees by the bolt Waterspout		A wa	EST terspout w 11:21AM EST			mile	ea 0	of A	palac	icola. Waterspout
rain tell within 30 minutes. He storm largely was continued to time (Guif Shore section and adjacent jareak, though heavy rains lashed	Dade County	A wa	EST erspout	as rep	corted a			l [Collier County	Wind rain and rain	EST (gusts to storm. Se raffic wa fell with	veral s stal in 30	homes a led in minutes	eporte nd cor some	ed a mmer area e st	Naple ial bo where	s Pie ilding up to gely w	during a violent s were damaged, two inches of as confined to the

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	П	,J	I		NO	OF	ESTIM	ATED†				در	I		NO	OF	ESTIM	ATED1	JULY 1978
	١.	OCAI	PATH	¥.		SONS		AAGE			1	OCAI	PATH	¥ L		SONS		AGE	CHARACTER
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PAT (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
FLORIDA (contin	nued)			!					<u> </u>	FLORIDA (contin	4.1		į į	<u> </u>	į	[!	i į	!
Hillsborough County	12	2:10PM EST	1/2	10	0	0	. 0	0	Tornado	Escambia County	19	8:02AM CST	ļ ļ	 	0	0 	0	0	Waterspout
	Driv	e in Tampa	and v	as movi	ng si	do to owly	uched westw	down a	it 30th and Medical To damage or			terspout : Lon.	as rep 	orted (, m116	8 50	ncu or	rensa	cola Naval Air
	-	ries were	!	ļ					<i>m</i>	Franklin County	19	9:45AM EST] <u> </u>	0	0	0	.0	Waterspout
Pasco County	12	EST	1/10	ļ	0	O d by	0 the n	0 ublic i	Tornado lear the inter-			terspout t stry Servi		orted o	ff Al	liga 	tor Po	nt by	the Florida
	весt	Lon of I-7	5 and	State I	oad :	4. 1	lo dam	age wa	reported.	Lee County		Unknown		<u> </u>	0		0	0	Funnel aloft
Okaloosa County	12	EST	 	ļ 	1	0		, 0 ↓	Lightning	Facerbia County	A fu	nnel aloft 3:35AM	!	! .	5 m:	lles O	south 1 4	or Ft.	Myers. Tornado
	duty	at James	Lee P	ark on I	Highwa	y 98	in De	stin.	lightning while on The victim and the Gulf and were	Escambia County		CST	!			!	i	l	ed \$7,000 damage
	putt	ing their	gear a	away who	an the	mis	ар ос	durred	Doctors reported lightning apparent+		to a	U.S. Env	ronmer	tal Pro	tect	on A	gency	facili	ty on Sabine Island a light pole on
	ly e		body	. The c	ther	life	uard,		ing only about 4		the	dock was 1 blown ove	ent, s	everal	tree	s wer	e blow	n down	and two boats
Osceola County	12	After-	!	!	1	0	0	0	Lightning	Marion County	25	2:40PM			0	0	0	0	Hail
									ntning at the			to 3:30PM EST			i	į			
	Ligh								ee on Highway 192. split two trees in								repor	ed du	ing a thunderstorm
Dade County		1 11:27AM			0	0	0	0	Waterspout	Monroe County	i	 12:15PM	, ,	211 2. 	0	i.	0	0	 Waterspout
	A wa	EST cerspout v	as re	orted	just d	ff M	ami B	each.			A wa	EST terspout	oving	westwa	l d was	rep	orted	10 mil	es east of Key West
	13	12:28PM			0	0	0	0	Funnel aloft	Hillsborough County	26	1:10PM	1/10	10	0	1	3	0.	Tornado
		EST nnel cloud national			porte	d abd	ut 8	niles :	orthwest of Miami										Tampa at the Le homes was limit-
Franklin County	Ì	112:41PM	Artho	φι. 	1 0	 0	 0	0.	 		ed n	ainly to	sheds a	nd caba	nas a	ttac	hed to	the h	pmes. A 49-year- truck in the back
	1	EST terspout w	as re	ported i	ĺ	į	ļ	i	i nacci spous	Pasco County		lying deb	ıs.	į	0	į	2	j 0	 Tornado
Broward County		7:10PM		Ï	0	0	0	0	Funnel aloft	,		EST	i	i	į	i	ļ ·	į	ternoon thunder-
	A fu	EST nel cloud	aloft	was re	porte	d by	a pil	t nea	Plantation.		stor	near New	Port	Richey	caust	ing o	ly mi	or da	age. A utility nclosure into a
Palm Beach County	15	11:27AM EST			0	0	0	0	Waterspout		i .	le home at	!	ŀ	l	ļ	İ	1	! !
	A wa	terspout v	 pasre 	ported t	near E	alm F	each.		i (26	2:30PM EST	ļ	!	0	0	į	0	Tornado ternoon thunder-
Taylor County	15	1:30PM EST	į	į	0	0	0	0	Waterspout		stor	n just nor	th of	Hudson	caust	ng o	aly mi	ior da	hage to two mobile The damage path
Duval County	A wa	erspout w	das rej	ported r	Į	ļ	! !	ļ			was	reported (o be a	bout 20	feet	wid	e, wit	the :	orch blown away elevision antennas
2441 County	1	EST nnel cloud	l Lalof	j L was r	O CONT	0 I	C 	i 0	Funnel aloft		and	a pine tre	e blow	n down.	The	re w	ere no	injur:	les.
Martin County	16	ļ]] 0	0	0	0	Waterspout	Alachua County	27	2:15PM EST	-1.6		0	0	i	0	Funnel aloft
	A wa	EST erspout	as re	ported	offsho	!	ŀ	1	d Beach and dissi-	Volusia County	27	nnei Cloud 2:30PM	1/10		POPE	0	2	miles 0	east of Gainesvill Tornado
Pages County	J	shortly	there	after.						, volume,		EST	i		i i		ļ		at High Bridge,
Pasco County	16	EST	alof:	j ,,,,, ,,	O	0	0 ••••	0	Funnel aloft pear State Road 52		abou the	3 miles cornado 1:	north fted t	of Ormo ack up	nd Be	ach.	Afte	dama;	ing one boat, ontinued moving
	and	t.s. 19.	1 -200						l	2	nort 29	hward at a							
Manatee County		11:35AM EST	<u> </u>	į	0.	1	0	0	Funnel aloft.	Broward County		EST			0 wn.at	Or 1	j 2 dear J	0 ohnnie	Tornado F Fish Camp turned
Orange County	1	nnel cloud	∦ alof 	tiwas r		1 1		!	enton.		over	two campo g Highway	rs. I	he camp	18	ocat	¢ d 14	miles :	horth of Andytown
		11:45AM EST nnel cloud	alof	t was re	0 BDOTE	0	0 Miles	0 southe	Funnel aloft ast of Herndon	St. Johns County	30	2:20PM			0	0	0	0	Funnel aloft
	Airp	ørt, Orlan J	10,	1		1- 2 4 		I Jacine	- or merinoon		A fu	nnel cloud	aloft	was re	porte	d ov	r St.	Augus	ine Inlet by the
Hillsborough County		1:20PM EST	<u> </u>	İ	0	0	0	٥	Funnel aloft		30	ty Sherifi 2:30PM	SULI	ice.	0		0	0	Waterspout
Duval County	1	ł ·	alofi	moving	1	1	ŀ	!	ported near Sydney		A wa	EST terspout v			n St	Aug	ustine	Inlet	by the County
Davar County		2:20PM EST anel cloud	a) of	wae -	O	0	0	0 	Funnel aloft Mayport Naval Air	Volusia County	Sher		ce. 1						bre moving inland.
	Stat	ion.		""" [1			[Myport Mavar Air	, sales a soundy.	1	3:00PM EST	ļ	į	*		Ĭ	•	
Broward County		After-			0,	1	0	0	Lightning		Three stor	persons when lig	htning	struck	near	wher	e they		uring a thunder- standing on the
	11gh	tning at F	t. Lau	#derdale	→Holl	ywood	Inte	tnat10	red when struck by	Belm Ponck Courts		. Their	injuri !	es were	İ	j	ļ		l Vatarana
	airp	red man wa ort, when ing the v	n polt	lof lig	ntnin	g str	uck t	e airc: he grou 	aft around the nd near the vehicle	Palm Beach County	31 A wai	8:30AM EST	dg rar	hetad L	l O l the] 0 	0	į	Waterspout Oca Raton.
	18	6:20PM	[[0	i. 0	0		 Funnel aloft	Broward County	31	8:48AM	 	0	o che	0	I O		Waterspout
		EST	aloft	was re	1	1		!	 ear Plantation.		A wat	EST erspout r			1	!	i i	!	uderdale dissipated
			İ	į						,		n about t							
				1								} 	į	:					
	}	į	!	-		,										'	i ·		1

																			JULY 1978
		14	PATH	ī		OF SONS		ATED†				¥	РАТН	r	NO. PER			ATED [†]	
		39	# 12	PAT S		-		, C	CHARACTER			25	F (2)	PAT S)	-	30/10	-	T	CHARACTER
PLACE		DAR	동필	무		e.	Ě		OF	PLACE		DAR	F	ARD	ا ۾ ا	e	E		OF STORM
	DATE	TIME - LOCAL STANDARD	LENGTH OF I	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS			DATE	TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	
<u> </u>		Fo	L				<u> </u>		ļ	L	ــــا	FR		*	~	<u>*</u>			
GEORGIA	,	2:00 pm			0	0	4	0	Lightning	IDAHO (continue		5:00 p			 0	0	4	i .	Wind
Worth County	l	1	l				'	-	-	Silvano Quanty	ļ	¦ '	 	ا			ļ	! :	ed two camper
	a do	g and ble	Led 50 Tup a	TV set	in S	rie i Vives	n Poke ter.	rsvill	e. It also killed		tra	ilers, kno	ked d	wn tho	usand	s of	trees,	and c	Bused other minor
Chatham County	3	1:30 pm	1	ļ	0	2	3	0	Lightning, Wind			hward to						10 10	e Kellogg area
	A ti	understor	n caus	ed a tre	e to	fall	onto	B Car	injuring one man.	Lewis, Idaho, and Nez	9	6:00 p	10	*2	0	0	0	6	Hail
	Ligi	tning inj	ured a	nother 1	a na	oout	the sa	me tim	e in the Savannah	Perce Counties	Hai	damage t	grai	n and p	a cr	ops r	l Janged	from 1	O percent to total
					0	٥	4	0	Wind		los and	≰. Heavie Idaho Cou	st dam nties.	age was Hail	in t	he We	stlake h in e	e-Ferdi diamete	O percent to total nand area of Lewis r fell at Lewiston,
Polk County		4:00 pm						1			Nez	Perce Cou 	hty.				1		
	l		binds	damaged	l				in Cedartown.	American Falls, Power County	l	4:22 p	į	į	0	i !	5	i i	Wind
Catoosa County	9 .	4:00 pm	ĺ	ĺ	0	3	3	. 0	Wind		A w	ndstorm b	ew do	wn 14 p	bweri ko.om	poles 0 dan	and o	daused About	trees to fall on \$6.000 damage was
	A m	bile home th. The t	was o	verturn	ed by	stro taine	ng, th d min	unders or int	torm winds in uries.		cau	sed to a m	bbile	home sa	es I	ot.	Severa	pers	\$6,000 damage was ons were admitted nor facial and head
Forsythe County	9	6:30 pm			0	0	4	0	Wind	1	cut	caused b	flyi	ng debr	is.		i cinem] " "]	nor recrait and need
rorsythe county		1						45.6		Latah, Lewis, and	15	 Evening	į		0	0	5	5	Wind, Rain, Hail,
		derstorm	Villas	пяшавец				l		Clearwater Counties	ĺ	<u> </u>	[İ				and Lightning
DeKalb County	23	3:00 pm			0	0	5		Downburst		wes	t to north	east d	f Genes	see, i	Lata	Coun	ty, and	wath from south- In parts of Lewis
	Kal	Airport	in the	northe	ast s	ect1d	n of A	tlants	Peachtree. De- . A nearby wind	1.	Cou	nty. Util	ity li h to P	nes wer btlatch	e dani	aged ah Co	by wit	nd and	llightning from
	ins	trument or	uly mea	sured g	usts	to 45	mph y	et \$40	0,000 damage re- the airport, and	1	Cle	arwater Co	unty.	Trees	ere l	uproc	ted,	hay t	hed demolished, oding was reported ut 20 forest fires,
				L				44 - 4	rport, causing con- rong winds lasted		În	he Deary	Bovill	area.	Ligh	tning	star	ted abo	ut 20 forest fires,
	20	minutes, e	and ma	funnel	vaa s	eeu.				Bonners Ferry,	16	Afternoor			٥	2	0	0	Lightning
DeKalb County	23	3:00 pm	1/10	50	0	0	5	0	Tornado	Boundary County	Lig	htning str	uck th	e elect	rical	line	lead	ng in	o a barn. Two
	Ami	ni-tornad	Cause	ed exter	sive	dama	e to	ware	couse construction Concrete walls		gir	or treatme	using Int.	a curi	ing (ron,	were	sent to	the hospital for
	were	blown in \$200,000	and de						Damage estimates	Bruneau Area, Owyhee	28	Afternoor			0	0	2	5	Hail
	i	ĺ	1		0		4	,	Idaheedea	County	Hai	. ranging	în si	ze from	an (nch t	p to i	l golf be	11 size, caused
Jackson County	24	3:30 pm			,	0			Lightning		hea	vy damage ken and ca	to cro	ps on s	evera) fa	ms.	Severa	windows were
	Ligh	tning set	fire .	and dest	roye		ĺ	ł .	J .	Buhl Area, Twin Falls		4:10 p			0	0	2	5	Kaîl
Barrow, Jackson Counties	25	5:00 pm	ł		0	0	4	0	Lightning	County	l	i		tuo id	ii		i ¦		royed more than
	Ligh	tning ind	deed fi	res, se	vere	ly dai	paged	chur	th in Winder and		200	b acres of	farm	crops i	nc lud	ling l	barley	, bean	, corn, beets, and
								ļ	ļ	ILLINOIS	pot	etoes. II	iere wa	S MINOR	cama	ge ti	o camp	ers and	d automobiles.
HAWAII Kapoho-Kalapana, East	19	noon-	ŀ		0	0	5	,	Hurricane Fico	Central and Ex- treme Southern	1	After-			0	1	5	1	Windstorm, Lightning
Hawaii Island		night	}		1		_	`	1,000			Evening	Ì				<u> </u>	!	
									pical cyclone o on 10th.		sout	hern Ill	inois	in t)	e af	ters	ioon e	nd et	al and extreme ening, knocking
	Con	timuing we	stward	Fico	passe	200	miles	south	of South Point,	1	bui.	kdings. 9	‡he st	rong v	inde	ble	w dos	ME A E	g numerous rain bin and
	turi	ed WNW an	d ende	d its c	reer	as o	ne of	the lo	ngest-lived st NE of Midway		Loss	erew co	estin	sted a	it ab	out	\$200,	i000. j	at about 2pm. Hail the size of
	Isla	and on 27t	ah. Da	mage fr	n hu	rrica	ne was	limit	ed to high wave It destroyed one		goli abot	balla w	pas se m. Oz	en in e inju	Shel	byvi as i	lle,	Shelt	y County, at woman was hit
_	hous	e and heav	ily da	maged ti	ree	other	в. E1	ght ot	her homes were]	by 1		88 8						e call at Tuka,
	in i	alapana s	¢ſſere	à \$44,0	00 da	nage.	Sout	hern a	\$140,000. Road hores of other		1-2	!	ָרָייָ ו		2	0	7	7	Meavy Rain,
	Hawe	iian isla	nds we	re not o	lamag	ed fr	om Pic	o'swa │	res.	Tilitanta	l		ļ	İ	!!	1	i	! !	Lightning
IDAHO Bonner and Benewah	١.	Evening		ļ		0	4		Wind, Lightning	1	IP 7 ~.	idine of	-1 de	RRATE	INT E	ne i	COPER	Baster	ms caused flash
Counties	1		ļ 1:	İ	`	!.	i	1	' '	Ti control of the con	D		minni	77 77 77 77	27.74	ATR	IANO 3	CORCE	ts, washing out
	11n	ds around	Sandpo	nt, Bo	iner	Count	y. A	house	damage to power hear St. Maries,	1	144		ina F	aine a	LT 25	e muc	30 AS	III TO	ere declared
	Į .	Į.	y, rec	elved m	į.	į !	mage m	Į .	lightning strike.										
Canyon and Gem Counties	3	Early Morning	1	1	0	0	4	4 	Hail, rain and Lightning		dro	ned when	floc	d wate a dra:	rs n p	pe s	t We	t Dur	od stage. A boy tube he was dee, Kane Coun- n struck by he Burr Will
	Hai	with hea	ļ ivy⊦rai	 h estim	ted	up to	three	inche	s in a half hour		ty,	on July	2. A	man w	the	ecti 10ti	hol	ed whe	he Burr Will on July 1, at
	did	extensive	damag	⊫e to se	∳era1	farm	js∙in t	ne Not	us area. Hail aged corn, beets,		Cou	try ciu		tonto	200	9118/	id (1	re de	troved the
	and	potatoes.	. Rain	over	set	y hil Fire	ls can Ito a h	e down	as a flash flood hat was nearly	1	LTB	BSSMr BI	11 000	marit v,			144-0	-44 4	00 000 loss re-
		droyed at						i	''		sul	ted from	the l	laze,	whi	hs	tarte	dati	about 6:15am,
Dayton Area, Franklin County	6	Afternoor	וו]	0	0	٥	5	Hail	1.	207	1.							
,	A h	ail storm Ud of 30 a	damage	d cabba	ge, h	ру, 9	rain,	bean a	nd beet crops. A	Rockford, Winne- bago County	7	Early Morning			1	0	7	٥	Lightning
Butto Clark 1.55		1	, ES 0	Lappa	!	ļ	1	oss.	Nind and their										ning hours,
Butte, Clark, Jeffer- son and Lemhi	[′	Evening	į		0	0	5		Wind and Light- ning								"	["	
Counties									caused extensive			1	j	Ì]
	dam	age to uti	ities	and sc	atter	ed li	hht bu	ii 1d ing	damage mostly to , Jefferson County.					į .		į	!		
	A n	ulmber of t	farmers	in the	Mont	evien	area,	į Clark	County, had hay y it had to be		1			į					
	rak	ed before mon, Lemhi	baling	il Wind	l gust	t to	58 m.ç	i.h. w	re recorded at	}		<u> </u>		į				. !	ļ .
) ai	non, Lemn	Count	1.	i I	į									į				
1	1	-	ļ	Į	Į	ļ	ł	ļ	t	1	ĺ	 	ļ		l				

<u> </u>																			JULY 1978
		TA.	РАТН	Ŧ		, OF		IATED†				AL.	РАТН	¥		OF SONS		ATED†	
PLACE		NB LE	9 8	PA1	Ī.		<u> </u>		CHARACTER OF	PLACE		LOC	9 (S)	F PA1		·			CHARACTER OF
	DATE	TIME - LC STANDARD	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	STORM		DATE	TIME - LOCAL STANDARD	LENGTH OF !	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	STORM
ILLINOIS (contin			į		[!	1 -			ILLINOIS (contin	nued	euth Ve	land	Cools	Con	n+v.	9 00	hatmi	tion worker was
East Central Illi-	1	zoon	 		0	į	5	!	Windstorm, Mail		stm	ck by a	ligh	ning	bolt	at .	bui suf	lding	site. Near a broken leg
	bta	te in the	afte	rnoon.	In	Vern	illioz	d Cour	portion of the	1.	wher	her tre	iller	Was t	ppe	001	or by	BU	rere injured. A
	II.hr	otion the	hount	dr inst	3 501	tth c	if Ca	ulin.	ile swath At about 4:30pm,										by the force knocked over his
	tie	ere damag	p was	repor	To a	o mo	st se	overe	d Grawford Goun- damage was in g to west of the		ten	traile:	, n m	1 400	1443				
1	-47	lhoo of I		wyllia.	1 8 10	VOOT A	ישיר ו	Lile Da	th. Half of the	Northeastern		About	1 ' .	175	0	0	5	?	Tornado
									was smashed by	Sangamon County	At	3:30pm bout 3:	30pm,	a tor	nado	was a t	spot	ted n	ear Monroe Gar- top a pickup
	the	fierce v	dinds.	Local	1200	I LIC	ogru	Jon s	nd tree limbs		tru	k, dama	ging	the tr	ick	ned.	Hail trave	and 11ed	top a pickup heavy rain accom to the northeast, a home and knock
	dov	med in ar	ares	rang	ing	rom	l mi	le to	2 1/2 miles wide is and windows		near	· Cantra	įι, w	Dere 7	80	1010		the t	omedo nassed 2
	Mel	e smashed	by 1	the st	ong	wine	s.				mil	s south	east	of Car	tral	1. Α	lso d	emage	d were 9 homes in
Central Illinois	9	About 2:30am-			0	0	5	?	Windstorm, Eail+ storm	INDIANA			i .	j .	1 .		•		
		3:30am	mina	thund	erst	i drm.	pack	ing s	trong winds,	Kokomo Howard County] ,	1:17 PM	Ì '	<u>}</u>) .] o			0	Funnel cloud
	hes	vy rains	and l	Hail a	ffec 1a,	ted :	ever	west	inties in Central orn McLean, Logan			el cloud	report	ed on r	1	! 1			
	and	l western	DeWi	t Cou	atie m At	al lant	i rep a, Lo	erted gan C	irong winds, inties in Central ern McLeen, Logan damage. A grain unty, a \$150,000 e Peoria area,			poving nor							
	los	d. Rains	of w	to 4	inc	hes :	fell Forth	in the	Peoria area, Mall shopping Gusty winds and much of which	Evansville Vanderburgh County	1	2:30 PM			0	-1	. 2	0	Heavy rain, severe
	Ina	I KINDCKO	u uon	4 100-	,	1.0	·	L- +-	itagealing, rower					i					lightning and flooding
	I WO	9:1n Tne	EL. TOT	GET Do	,		1 1	L	tasseling. Power er much of the gh as 50 knots		Hea	y thunder	j Astomas	moved	throu	l ghE	vansvi	 1e	-
	ar	es, due t	Φ MJD	KNPS ATTT	en e	L					Num	erous ligh	tning	strike	set	off:	ires	and	
Manover Park,	14	About			0	0	5	0	Lightning		fel	pred a 14- 1 in a two							
Cook County	A	bolt of]	ightr	ing r	pped	int	o a l	anove 100	r Park townhouse wing 4 families 00 damage. The		ing	i i	ļ	į Į					,
	1 hc	malaas ai	TO CHE	to true ,	~···	7		1-1	TOWELL	County County	1	2:45 PM			0	a	0	0	Strong wind
	l he	nnae and :	unite	BET PITE		e the	t gu	ted :	others. No in-			60 mph v	dinds v	ere re	porte	by	he St	te .	
Extreme Northeast-	ر 20		i		0	0	5	1	Windstorm,	Anderson	FOI	ice.	į	i.	ļ				
ern Illinois		poon and Evening	1		1.		İ		Lightning, Leavy Rain,	Madison County	1	2:45 PM			0	0	. 0	0	Funnel cloud
	Li	gatning,	high	vinds	and	Feco	rd he	Vy z	Hailstorm			te Police erson.	repor	bed a fi	nnel	clou	d over		<u> </u>
	st	muctural 11 Counti	damag	te. Lal	re, (ook,	Kane	Dul	few fires and age, Kendall and wer outages re-	Nashville				į	ļ	İ			
										Brown County	1	3:48 PM				0	0	0	Funnel cloud, hail and heavy
ĺ	st	arted num	rous	small	lifir lod s	és 1	n hor	nos ar mview	lightning strikes of businesses. When the strikes of the strike of the st					ĺ	[ĺ		rain
	at	about /p	m, wr	iere a	port	LON Imla	OT A	de l'oc	shoed and 3 mobile		Nas	unnel clou hville mo	ing s	utheas	e¦d 3 r t∣wita	iles gol:	jeast ≸ball-	of size	
	ho	mes were	dvert Least	durned 50 km	and nots.	batt At	β:18	by thom, Mi	ne winds which laway Airport in diameter.		hai	and hear	vy rain !	1.		ŀ			,
			orted	haila	i	i	1	1		Columbus Bartholomew County	1	4:45 PM	.50	50	0	6	4	0	Tornado
Morthern Half	2	Morning			1	5	5	,	Windstorm, Hailstorm, Lightning		Co1	prnado to limbus and	noved	east.	Stru	dtura	1 dama	ge oc-	
	}	After- noon	i				<u> </u> .	مساما				red at a people w					of Col	umbus.	
	no	rthern he	if of	11111	рія.	, Hai	der	rastat	le areas of the ted crops. Light- and telephone	Rockville Parke County		2:35 AM	-		0		1		High wind
	111	nès as tr	·ées s	and tre	90 l:	mos	crass	төа ас	MAI OH HOMES, COT	·	i	en thunde	ristorm	produ	1	į .	ĺ	l down-	TER ATIN
	st	rikes. In	the	Chicag	go au	ea,	wind	damag West	bed by lightning to was concentrate on Avenue. Sever lamage, although thable. Damage ed in Carroll. Corn and soy-5-mile wide, 15-		ing	power li	nes.] 	1] 	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1	
	a]	counties	repo	orted o	opns:	dera s we	ple p no	t ava	lamage, although	Monroe County		2:40 AM			0	0	i	0.	Funnel cloud
	de	scribed a	is con	nplete	to :	19061 17011	ne wa	s note hours.	of in Carroll Corn and soy-		Sta	te Highwa Lake Mon	y Poli roe ar	ca repo	nted :	n I	hel cl	oud in	į
	be mi	ans were	slas!	ned by	ları n La	ge he n ar k	and	ver a	pemile wide, 12" dgeville. Large the hamiles south	Tippecanoe County		1:15 PM	ì	170	0	0	4	0	Tornado
	hi	il was a	at 2	porte: 20pm;	at in	Hack	inaw,	and t	Corn and soy- b-mile wide, 15- ageville. Large ty h miles scuth at Hopedale. In or or larger were "Sam; at Cherry, after lpm at o occurred at m; and at Stand-		A t	ornado wa	trac	ed acr	ss t	le no	thern	part	
	ac ol	dition,	t Cap	rones	≯4 oone 28	Cou	nty,	dt 10	:35am; at Cherry, after 1pm at		fay	West Lafa; ette, mov	ing in	la souti	heast	erlv	direct	ion.	
	B	reau Cou rest Hill	ncy, Wil	ar 12: 1 Coun	10. 10. 10.0m	Larg	e hai	l als	o occurred at m; and at Stand-		nor	ensive tr	West 1	afayet	te. i	exten	ive t	ree	í · . l
			1	0 مستل	Name of	. 4 2007	eft.	mere C	iamaged when a	t	hou	age to a : p receivi (000). The	dg roo	idamag	ei (ap	roxi	dately	i	
	to	wa Airoo	nd fla	ipped o	unty.	A L	he of	the capita	al Airport,		Vin	ton Woods	subdi	∮ision ∘	o'n th	nor 🛊	heast	side	
	Sr wi	ringfield	ı San	ngamon odd on	its	bacl	anot k by	the s	trong winds. Part		one	home recely \$8,000	diving	consid	rabl	dam	ge (a	pproxi	•
	Co	unty was	pippe	one sar	ו לפן וייים מ	rest;	y win	dş. M	st of the roof County, was torn	Rainville						-	!		
	ur ur	by stron	ng win	nds. O	ne de	e th	and man	inj	other at Beards- al Airport, iane was damaged trong winds. Fart inley Park, Cook of the roof county, was torm ries were direct- ed in Lake Michi-	Warren County	l	3:08 PM	.25	}	0	0	4	0	Tornado
	ge	n near W	lmet	te, Co	ok C	ount	y wher	n he	took out a small		dow	riff Depai h briefly	jat Rai	nville	in No	rthe	n War	ren	
									d when lightning , Cook County.		Cou	hty. Seve	eral mo	bile h	obnes v	ere	amage	d.	
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JULY 1978 NO. OF PERSONS ESTIMATED! NO. OF ESTIMATED! TIME - LOCAL STANDARD TIME - LOCAL STANDARD TH OF PAT WIDTH OF PAT CHARACTER CHARACTER LENGTH OF I LENGTH OF I PLACE PLACE INJURED PROPERTY STORM STORM NJURED 8 9 CROPS CROPS 를 Ē INDIANA (continued) INDIANA (continued) Grissom AFB Miami County Dugger Sullivan County 26 7:26 PM 0 1 0 | 0 Funnel cloud 3:10 PM Ω 0 0 ٥ High wind and heavy rain Sullivan County Sheriff sighted northwest of Dugger, Later wat recede back into the cloud fundel 2 miles 63 uph wind and 3/4 inch rain w watched the funnel Crawfordsville 0 0 ? 0 High wind Montgomery County 26 7:47 PM 0 0 ١ ٥ 0 Funnel cloud Owen County High wind damaged several signs and down A finnel cloud was Clay and Vigo County Line Funnel cloud 0 Daviess County 26 7:52 PM 0 ¦ 0 0 0 Funnel cloud funnel cloud was sighted in the vicinity of S. Highway 40 on Clay and Vigo County line. A filmnel was Columbus Bartholomew County Funnel cloud Bloomington Monroe County 0 ٥ 0 8:02 PM Funnel cloud 26 d by the County of Columbus, m north of Bloom. A funnel was reported 5 miles Sheriff 10 miles southeas moving ington. Trees in Bloomington. southeast. Putnam County 7 6:00 PM-اه 0 Flooding Bargers ville 0 0 0 0 Funnel cloud Johnson County 26 8:33 PM Several county roads under water with one road washed out between Fincastle and Carpenterville A funnel was tied I mile Worthington High Wind and large hail Windhester Randolph County Greene County 15 4:16 AM 0 01 0 Funnel cloud 0 26 8:46 PM A funnel cloud was Police reported golfball. hail and hileh Evansville Vanderburgh County Hail 30 5:23 PM 0 0 0 0 Evansville Vanderburgh County 15 6:30 AM-8:00 AM One and a half inch hail burgh lock and Dam .5 mil ville. ed at 0 0 High wind, heavy of E rain and minor Strong thunderstorps hit Evanskille, dumping to 2 inches of rais. High winds blew down trees, knocked outlyower and blew in several large windows. Several streets were flooded during heavy rains Evansville Vanderburgh County 30 5:32 PM iο 0 0 ? ? Haf1 size hail Evansvill Public reported colfball Newburgh Warrick County Covington Fountain County 30 5:28 PM 0 0 0 0 Funnel cloud 15 4:58 PM 0 0 1 0 0 Funnel cloud Strong thunderstor south of Newburgh, with cloud reported A cooperative river observed out just north of Coving Perry County 6:15 PM Hobart Lake County 21 0 0 Funnel cloud 6:38 PM 0 0 Leopold. nel cloud repor ed in the vikinity of 1-65 and 37th Str IOWA Plainview Campground Dorchester, Allamakee County 1 12.30A-٥ n 5 0 Heavy Rain 3:00A
Nearly 5 inches of rain fell
flodding at a campground whice
a bridge over the river. Kouts Porter County hour period causing flash y il traplers and destroyed 7:20 PM strong wind wept away State Police reported a fumoving southeast and wind 1 2:302 5 30 to 71 mph 3S Weaver 4 Tornado A tdraado touched down moving east, then elst soltheast. Tornado skipped wavered along path damaging farms, blowing down some corn fields and twisting off the tops of crees. Lee County Clinton County 5:59 PM 0 0 0 0 ce reported 3 finnel in 5 A:20P 34 30 0 0 6 2 Tornado
Tornado touched down in South Dakota 2 NW akron prossed over the
Big Sioux River and damaged the Oetken farm crossing Highway 12.
The I cornado drove 2x4s through the side of the house and blew the
barn roof on the farmhouse 30 feet away. Fornado also destroyed
many trees by chopping off tops and uprooting them. The tornado
skipped along a path moving ESE damaging several farms in its wake. entral 4 Mi. N. Akron to Brunsville to LeMars on County north of F Clinton County 24 6:09 PM ٥ ٥ O 0 2 finnel clouds Plymouth County A number of severe thunders orms ravaged their way through much of the area mentioned doing considerable damage to property and crops. These storms produced wind of 80 MPH which knocked down trees that fell on power lines, houses and pars. Tennis ball sized haif liattele any erops. In O'Brien County from Primghap to Royal (Clay County) hail devasted an area a miles wide by 15 miles long. Tornadoes formed (Reported separately) and many funnal clouds were sighted. A furnel was observed movin SE at Milford in Dickinson County at 5:30 P. Another funnel was observed at Hostoria in Clay County at 6:500 P moving SE before poing back into clouds. Heavy rains caused pools to form in many fields and caused many streets to flood when sewers could not handle the downbour. New Carlisle St. Joseph County 26 2:50 PM 0 0 ? ? Hail Gol ball-size hail rte in au Ca∳liale Mi.shawaka Straight line wind St. Joseph County 26 4:45 PM 0 0 3 South of Mishawaka lime wind da nd ble Cayuga Vermillion County 0 0 2 funnel clouds 26 6:10 PM 0 5 5:30P 8 100 0 0 4 2 Fornado

Fornado touched down in Hudson, bouth Dakofa moved ESE into Iowa.The

tornado skipped along path propring Frees, twisted a three story

tall two-way radio aptenna around garbage and bent a metal flag pole

to a 45 degree angle 11N Hawarden Sioux County

PACE			1	1				·		····				,						JULY 1978
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3 AP MORTH COUNTY 1 SE LINE Germa 1 Service Allers of County 2 Service Allers of County 2 Service Allers of County 2 Service Allers of County 2 Service Allers of County 2 Service Allers of County 2 Service Allers of County 2 Service Allers of County 2 Service Allers of County 2 Service Allers of County 2 Service Allers of County 2 Service Allers of County 2 Service Allers of County 3 Service Allers of County 3 Service Allers of County 3 Service Allers of County 3 Service Allers of County 3 Service Allers of County 4 Service Allers of County 5 Service Allers of County 5 Service Allers of County 5 Service Allers of County 5 Service Allers of County 5 Service Allers of County 5 Service Allers of County 5 Service Allers of County 5 Service Allers of County 5 Service Allers of County 5 Service Allers of County 5 Service Allers of County 5 Service Allers of County 6 Service Allers of Co	PLACE	DATE	TIME - LC STANDARD	LENGTH OF (MILES)	WIDTH OF PA	KILLED	INJURED	PROPERTY	CROPS	OF	PLACE	DATE	TIME - LC STANDARD	LENGTH OF (MILES)	WIDTH OF PA (YARDS)	KILLED	INJURED	PROPERTY	CROPS	OF
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The Country Control of the findings in country of the findings of the country of		Torn	do moved	SE fo	t 8 mil	es th	en sw	ung E	for ne	xt 3 miles. The	Smith County	5	6:30 p	!	!	0	0	5	0	Wind
District Groups where the control of		roof	s , destroy	ng ou	g path of	ngs	and c	nsive ement	silos	to farms, lifting and uprooted several		Thun	derstorms ng damagir	moving g wind	east t s. Dama	nroug ge wa	h the	e coun	y wer	e accompanied by arm buildings
Same Syste Courty The consideration of the property several highly as general party property green. The courty of the construction of the constru	1 CR Idan Crove	1	i	,	20	Ì,						most	i	south	portion	of t	he c	dunty 		
but described on the process worder stated for the process of the		Torn	ado touche	down	headin	str	aight	East,	uproo	ting trees. The	Clark County		į ·	į	i.	i i	i	į .	i	
2 A Solitater Law 1 and South 1 and Solitate Sol	·	and	dearing ou	t two	large w	oden	touc h1gh	ned do line e	wn aga Lectri	n damaging crops cal poles before		wind	Damage	was to	trees,	ast w	ere :	secomp mall b	enied pildin	by strong damaging as and roofs mostly
Sections from Section Prompts Control of Control Prompts Control Control Control	2E Odeboldt		!	i	j	1	i n	! !	0	Tornado	Shawnee, Douglas and	1 .	1	y of A	bhland	0		4	ļ 10	Wind
Sectioners board Section Secti			ado touche	down	moving	SE j	ust N	₩ofa	farm	lestroying most of	Franklin Counties		5:20 p	İ	į	į. Į	ļ			!
This country is a control of the con		whil	e later ba	ck int	the c	louds	ł				,	show	ers and st	rong g	baty wi	nds.	Wind	gusts	estim	ated at 60 to 80
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bopuls of treis and descriptly hours. Through overed a miles of control Contro	Rock Rapids	forn	ado touche	d down	near 1	Leste	and	6 skipp	ed alo	ng path moving SE.		was	o a hayst	ack an	d farm	build	es n lings	ortn o	i Hano	ver, minor damage
Distriction Distr	Lyon County	copp	ing off tr	ees an	d destr	ying	home	Rock R	apids rnado	tearing roofsoff, moved 4 miles SE	Smith County	6	Evening			٥	0.	5	. 4	Hail
Encoder Councy The circumstance towards already and the first and process of the councy The councy	2 (2 N M		i	ł	l•	i	i	ļ	į	<u> </u>		Thun	erstorms	noving	northe	ast r	rodu	ced lo	dal da	aging hail across
Seed State County 18 100 0 1 2 100 0 1 4 3 Ternado Transce County The private casehed down to the furthers of a farm. The cernado Alaphyd Jung 2 peach before contage of an is county in the county The private control of the further county The private county Th		Che	tprnado to	ched	down 200	00 fe	et SW	of a	farm 1	n a willow grove		1-3/	€ to 2-3/4	inche	s in di	amete	r re	ported	. Dama	ge was to trees and
2 NN Satherville Dance County Dance County Dance (Pairs Alterville Dance County Dance (Pairs Alterville Dance (Pairs Altervill											Washington County		i	, or or		"25		1		i .
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2. WE Stinburville Drove County Indicator (2014) 2. WE stinburville Drove County Indicator (2014) 3. S		Bkip;	ped along :	a path	before	comi	h g do	n in	a corn	field and soybean		Hano	er.		i ·				Ì	
Ement County										l .	Sedgwick County	6	7:30 p	İ	ļ	0	4	5.	5	Wind, hail
Scriptor (Table At All County) to Military (Table At All County) to Military (Table At All County) to Military (Table At All County) to Military (Table At All County) to County (These two (corruptors altrapert) of corrections and property). These two (corruptors altrapert) of control (County) (Table At County) to Military (Table At County) to County (Table At County) to County (Table At County) to County (Table At County) to County (Table At County) to County (Table At County) to County (Table At County) to County (Table At County) to County (Table At County) to County (Table At County) to County (Table At County) to County (Table At County) to County (Table At County) to County (Table At County) to County (Table At County) to County (Table At County) to County (Table At County) (Table At Coun												and	ail. Grea	test w	and date	-	98 91	tia mo	hila h	ome nark in east.
Conserved County Chart Appete Union County Chart Rapids Lim County A elever Chardest profile to see she shall be continued as the port of the seed of the county According to the seed of the seed		afte 14	r one minu 5:00P	tie. 6	100	0	0	4	; ; 3	2 Tornadoes		dama	ta where	person	dle hom	es we injur	re do ed i	epstroy nithe:	d and	several others homes. Wind was
Creston Airport Union Country Union Country Union Country Strong winds completely destroyed a new happar of the airport. Well (Appanone Country) Mary thunderstorms produced up to 3.3 inches for the country of the c		cr	ops and pr	operty	These	d two	part	to sid	le by s	Idemoved SE damaging		most	y in the	при в	ра пеа	L-0A	ulr i	rorce i	pase. !	Mail Camage was
Disconting Strong winds completely destroyed a new halpar at the sirport. Uniconville - Norwise 19 2-46. Uniconville - Norwise 19 2-46. On 4 5 lawy Rain at the sirport. Uniconville - Norwise 19 2-46. On 4 5 lawy Rain at the sirport of the county of the sirport of the county of the sirport of the county of the sirport of the sirport of the county of the sirport of the county of the sirport of t			i -	nj sepa 	dately.	!		١.			Wilem County	'	ļ	!				١.		1 544-4
Unionville - Moravia- Udell (Appanose Count) Why Thundricoma produced up to 3.5 melves of gain. This tain the said more constructed to the said of the					ļ.,	!	! .	i	ļ	Wind	-	1	!		howine	1	į		i	!
Useful (Appanoose County) Which thunderstorms produced up to 3.5 inches of cain. This rain floodes describly designed sorbest falsage sorbest falsage sorbest falsage. The Sych and South floodes described manufactory such the county of the first clay which differed in response to the first clay which differed in response to the first clay which differed in response to the first clay which differed in response to the first clay which differed in response to the first clay which differed in response to the first clay which differed in response to the first clay which differed in response to the first clay which differed in response to the first clay which differed in response to the first clay which differed in response to the first clay which differed in response to the first clay windows, uproched these in the first clay windows, uproched response to the first clay windows, uproched these in the first clay windows, uproched response to the first clay windows, uproched response to the first clay windows, uproched response to the first clay windows, uproched response to the first clay windows and businesses were flooded! Palo (Linn County) 26 100	Unionuillo - Moraute-	ł	Ì	gompie 	tery dea	gtroy 	ea a	ĺ	ł	}		Wind	estimate	pt at 6	Ø to 70	mph	dama.	sed ro	bfs. u	det a camper-
Soaf Creek fisheded ismediately yearhing out bridges and approachasys (and the county of the county		y)Ma	dy thunder	storms	produce	ed up	to 5	.5 1nc	hes of	rain. This rain		brea	ļ.	1	į			į		į
A several changeractors proclaced a strong wind wind a strong wind the control of the Fitto Lay which of the Fitto Lay buildings, the read from the country of the Fitto Lay buildings, the country of the Fitto Lay buildings broke through other roots an early. The strone broke windows, uprovided trees which fill on provided these which fill on provided the season of the country of the fitto the country of the	ľ	Soa	Creek fl	oded	immedia	tely	washi	ng out	bridg	es and approachways	Butler County		1	ĺ	i	ļ	į	1	ļ.	!
which iffeed he roof of the Fito Lay building. The rain then sonaide most of the stock sections. The roof from the Frito Lay building broke through other roofs spearby. The store broke windows, uprosted these which field no power lines, care, and houses. Van Horne and Newhall Area (Benton County) Wan Horne and Newhall Area (Benton County) Wan Horne and Newhall Area (Benton County) Beaty rain of up to 3 inches in an bour selled greeks out of their bunds, produced lakes in how areas in towns and fulled many basements. Bridges over many sections of the County were washed out and businesses were flooded. Palo (Lian County) Palo (Lian County) 26 7 300	Cedar Rapids Linn County	l As	evere thun	 ersto	 tm prod	tced	h str	one wi	hd	Wind	,									
Van Horne and Newhall Area (Benron County) Was Horne and Newhall Area (Benron County) Manuels. Van Horne and Newhall Area (Benron County) Manuels. Van Horne and Newhall Area (Benron County) Manuels. Palo (Linn County) Palo (Linn County) A thunderstorm produced a base in town and filled many basements. Pridges over many bectfines of the (County were washed out and businesses were flooded). Palo (Linn County) A thunderstorm produced a both of fightness which injured 10 men while replacing a other fortyped pine is a nuclear power plant. KANSAS Phillips County 5 3:50 p ? 7 0 0 0 0 Tornado Tornado touched down briefly in poen country 4 miles northwest of Logah. No damaged was reported. Marshall, Memaha, Saith County Washington County A thunderstorm brooked and produced a both of fightness was to tweey. Tornado touched down briefly in poen country 4 miles northwest of Logah. No damaged was reported. Counties Strong thunderstorms moring northwest through these counties and signs with greatest thange reported was northwest of Sounds Strong thunderstorms moring one through these counties and signs with greatest thange reported was northy in gone country 2-1/2 miles north of Liberal. Rees County 5 5:28 p ? 7 0 0 0 Tornado Tornado moring east through these areas produced heavy rains, small hall, and damaged to horse, authorables, and withing these areas produced heavy rains, small hall, and damaged to horse, authorables, and withing them the propriating structure and an arbit of the preparation of the propriate was northy and propriate was complained by local hail and gusty winds. There were cactered reported with the sounts are specified and and printing a trink and and any the right inger work as a reported of the progress. Other worker reported feel hange as a specified sound and any countries were coordinated by local hail and gusty winds. There were cactered reports of hailstone to 1-3/4, Sinched in diameter. There were cactered reports of hailstones to 1-3/4, Sinched in diameter. There wer		whi soa	ch lifted ked most o	the ro	of off stock s	the F	rito ns.	Lay bu The ro	dilding of fro	. The rain then the Frito Lay	Montgomery County	8	5:30 a			٥	0	5	0	Wind
Van Horne and Newhall Area (Senton County) Ready rain of up to 3 inches in an hour swelled preaks out of their banks, produced lakes in low agrees in towns and filled many basements. Bridges over many bections of the County were washed out and businesses were flooded. Palo (Linn County) KANSAS Palo (Linn County) KANSAS Phillips County S 3:50 p 7 7 0 0 0 0 Tornado Tornado touched down briefly in ppen country 4 miles northnest of Logas. No damaged way reported. Strong thunderstorms moving northness through these counties were reported with the storms if miles southeest of Sublette and Signs with greatest famage proported around Liberal. Funds of Sublette and Signs with greatest famage proported. Nees County S 5:28 p 7 7 0 0 0 0 Tornado Tornado and northness through these counties were reported with the storms if miles southeest of Sublette and Signs with greatest famage proported. Tornado and soving east prouched down briefly in open country 2-1/2 miles west of Banasca. No damage was proported. Tornado and soving east prouched down briefly in open country 2-1/2 miles west of Banasca. No damage was proported. Strong thunderstorms moving east through these counties were accompanied by hing. All and gasty with signs with greatest famage proported with the storms if miles southeest of Sublette and Signs with greatest famage proported around Liberal. Fund clouds were reported with the storms if miles southeest of Sublette and Signs with greatest famage seported around Liberal. Fund clouds were reported with the storms if miles southeest of Sublette and Signs with greatest famage seported around Liberal. Fund clouds were reported with the storms if miles southeest of Sublette and Signs with greatest famage seported around Liberal. Fund clouds were reported with the storms if miles southeest of Sublette and Signs with greatest famage seported around Liberal. Fund clouds were reported with the storms if miles southeest of Sublette and Signs with greatest famage seported with sublette and Signs with greates		win	dows, upro	e thro	ugh oth rees wh	er ro	ofs n ell o	earby. n powe	The r line	storm broke s, cars, and		Thun	erstorms on of the	noving	southe	ast c	aused	d dama,	ting w	inds in northeast
Rece (Senter County) Rece (Penter County)			ì				i .					abou	n mrre e	ast an	b சு மார	e nor	ըս օ	Cher	nyvale.	Damage was to
mends. Bridges over many bections of the County were washed out and businesses were flooded. Palo (Linn County) Palo (Linn County) Palo (Linn County) A chunderstoch produced a bolt of lightning which injured 10 men while replacing a districtly strong bine at a cuclent power plant. KANSAS Phillipe County Tormide touched down briefly in open country A miles northwest of Cognitive and Seward Counties Strong thunderstorms moving northeast through these counties produced local damaging winds. I amage was to trotes, roots, and signs with greatest kanage reported. Nees County S 5 28 P ? O O O O Tormado Tormide move that the storms of B miles counties were reported in the storms of miles outhered to Substite and Tormido moving east knowled down briefly in open country 2-1/2 miles west of Panson, No damage was reported. Nees County S 5 28 P ? O O O O Tormado Tormido moving east knowled down briefly in open country 2-1/2 miles west of Panson, No damage was reported. Nees County S 5 28 P ? O O O O Tormado Tormido moving east knowled down briefly in open country 2-1/2 miles west of Panson, No damage was reported. Strong thunderstorms moving east through these counties were coccapanied by local hali and questy kinds. Three was considerable questions moved as through the county wind damage. Grop damage due to wind and rain was minor. Shawnee County S 5 28 P ? O O O O Tormado Tormido moving east knowled down briefly in open country 2-1/2 miles west of Panson, No damage was reported. Shawnee County S 5 28 P R O O O O Tormado Tormido moving east knowled down briefly in open country 2-1/2 miles west of Panson, No damage was reported. Shawnee County S 5 28 P R O O O O Tormado Tormido moving east knowled down briefly in open country 2-1/2 miles west of Panson, No damage was reported. Shawnee County S 5 28 P R O O O O Tormado Tormido moving east knowled down briefly in open country 2-1/2 miles west of Panson, No damage was reported. Shawnee County wind damage. Grop damage due to wind and rain was mino		Hea	y rain of	up to	3 inch	es in	an h	our st	elled	creeks out of their	Smith County	l .		 	w.a. u	j i		5	0	 Wind
A chunderstorm produced a boil of lightning which injured 10 men while replacing a deterior pyed pipe at a suclear power plant. KANSAS Phillips County 5 3:50 p ? ? 0 0 0 0 Tornado Tornado touched down briefly in open country 4 miles northwest of Logan. No damaged was reported. Baskell and Seward Counties Strong thunderstorms moving northeast through these counties produced local damaging winds. Hange was to trees, roofs, and signs with grebstest hamage sported around liberal. Furnel clouds were reported with the storms 18 miles southmest of Size produced local damaging winds as through these counties around the storms 18 miles southmest of Sublette and 15 miles northy of liberal. Nees County Fallips, Rawlins, Decature, and Norton Counties Frontado noving east turbugh these counties are reported. Frequency of the county and storms with whinds in excess of 60 mph moved northeast across the county causing extensive damage to trees, farm buildings, arms buildings, arms buildings, arms buildings, arms buildings, and storms buildings, and storms produced local damage was to trees, roofs, and Acthison Counties Narshall, Memaha, Brown, Donthban, Sackson, Shawnes, Jefferson, and Acthison Counties A espall line moving east through these areas produced heavy rains, small hall, and damaging winds estimated as 60 to 80 mph. Scattered damage to home, authoribles, and utility lines reported was mostly due of alling tree libms, for trees allown from by the wind. Considerable cloud to ground lighting, A workshaw as injured when lighting struck as higher west of Torpkes while repair work was in progress. Other workers reported feeling an electrical charge, fine county as a rebuil of fire launed by lighting struck as higher west of Torpkes while repair work was in progress. Other workers reported feeling an electrical charge, fines as through the county as a rebuil of fire launed by lighting struck as in figure west of the launch and west portions of the county as a rebuil of fire launed by lighting struck as consider		men	s. Bridg	es ove	r many i	becti					1	Thur	erstorms	ј јассопр	anied b	y str	ong 1	inds	l beved	ast-northeast
A clumderstorm produced a boil of lightning which injured 10 men while replacing a directornyed pipe at a suclear power plant. KANSAS Phillips County 5 3:50 p ? ? 0 0 0 Tornado Tornado touched down briefly in open country 4 miles northwest of Logas. No damaged was reported. Logas. No damaged was reported. A thunderstorm with winds in excess 6f 60 mph moved northeast across the country causing extensive damage to trees, farm buildings, grain storage bins, and power lines. Marshall, Nemaha, Brown, Dontphan, Jackson, Shammes, Jefferson, and Atchison Counties Strong thunderstorms moving northeast through these counties Strong thunderstorms moving east through these counties Strong thunderstorms is miles southwest of Sublette and 15 miles outhwest in Sublette and 15 miles southwest of Sublette and 15 miles southwest of Sublette and 15 miles southwest of Sublette and 15 miles west of Ransou. No damage was reported. Phillips, Rawlins, 5 Evening 0 0 5 6 Hail, wind Phillips, Rawlins, 5 Evening 0 0 5 6 Hail, wind Strong thunderstorms moving east through these country 2-1/2 miles west of Ransou. No damage was reported. Strong thunderstorms moving east through these country 2-1/2 miles west of Ransou. No damage was reported. Strong thunderstorms moving east through these country 2-1/2 miles west of Ransou. No damage was reported. Strong thunderstorms moving east through these country 2-1/2 miles west of Ransou. No damage was reported. Strong thunderstorms moving east through these country 2-1/2 miles west of Ransou. No damage was reported. There were accompanied by local hail and guety winds. There were accompanied by local hail and guety winds. There were accompanied by local hail and guety winds. There were accompanied by local hail and guety winds. There were accompanied by local hail and guety winds. There were accompanied by local hail and guety winds. There were accompanied by local hail and guety winds. There were accompanied by local hail and guety winds. There were accompanied by local hail and gue	Palo (Line Countu)	l	! 1	p were	 	!	10		0	Lightning		acro	s the cou	hty ca	using d	апа де	to 1	trees.	farm !	uildings, fences.
KANSAS Phillipe County 5 3:50 p ? ? 0 0 0 Tornado Tornado touchei down briefly in poen country A miles northwest of Logan. No damaged was reported. Haskell and Seward Counties Strong thunderstorms moving northeast through these counties produced local damaging wints. Hamage was to trees, roofs, and signs with greatest thange reported around Liberal. Ness County Size produced local damaging wints. Hamage was to trees, roofs, and signs with greatest thange reported around Liberal. Purnel clouds were reported with the storms is miles southwest of Sublette and 15 miles north of Liberal. Ness County Tornado moving east trouched down briefly in open country 2-1/2 miles moving east through these country 2-1/2 miles moving east through these areas produced heavy rains, small hail, and damage, drop damage are slown down by the wind. Considerable damage was reported at A Yacht Club on Perry Lake where boats, dooks, and a portion of the breakwater all sustained wind damage. Grop damage due to wind and rain was minor. Thunderstorms moving east through these country 2-1/2 miles moving east through these country with winds in excess the country causing extensive damage to trees, farm buildings, grain storage bine, and power lines. Harshall, Nemaha, Brown, Doniphan, Jackson, Shawnee, Jefferson, and Atchison Counties A squal line moving east through these areas produced heavy rains, small hail, and admagns winds extensive damage to trees, farm buildings, grain storage bine, and power lines. A thunderstorm with winds in excess the country causing extensive damage to mover power lanes. Brown, Doniphan, Jackson, Jackson, Shawnee, Jefferson, and Atchison Counties A squal line moving east through these cronties were and admagns winds extensive damage was to the definition of the breakwater all sustained wind damage, to dows, and a portion of the breakwater all sustained wind damage. Grop damage due to wind and are proved feeling and electrical charge. Harry work was in progress. Other workers reported feeling and elec	(Bin County)	At	hunderstor	m pro	duced a	bolt	of 1	ightni	ng whi	ch injured 10 men	Washington County	i	İ					i	Į.	i
Tornado touched down briefly in open country 4 miles northwest of Logas. No damaged was reported. Haskell and Seward Counties Strong thunderstorms moving northeast through these counties produced local damage was to trees, roofs, and signs with greatest fiamage reported around liberal. Funnel clouds were reported with the storms 16 miles southwest of Sublette and 15 miles north of Liberal. Ness County Fhillips, Rawlins, Decatur, and Norton Counties Strong thunderstorms moving east through these counties produced local down briefly in open country 2-1/2 miles north of Liberal Punnel clouds where boats, docks, and a portion of the breakwafer all sustained where boats, docks, and a portion of the breakwafer all sustained where boats, docks, and a portion of the breakwafer all sustained where boats, docks, and a portion of the breakwafer all sustained where boats, docks, and a portion of the breakwafer all sustained where boats, docks, and a portion of the breakwafer all sustained where boats, docks, and a portion of the breakwafer all sustained where boats, docks, and a portion of the breakwafer all sustained where boats, docks, and a portion of the breakwafer all sustained where boats, docks, and a portion of the breakwafer all sustained where boats, docks, and a portion of the repair work was in progress. Other workers reported feeling an electrical charge. Minor damage was to be all they and farm buildings it south and west portions of the country as a rebult of fire caused by lighting strikes.		_	!			Į		;												
Haskell and Seward Counties Logan	rnillips County		!		!	ì	i !		i	i		grain	s the cou	nty ca bins,	using e	er 11	nes.	lamage	to tre	es, farm buildings,
Haskell and Seward Surget hunderstorms moving northeast through these counties produced local damaging winds. Lamage was to trees, roofs, and signs with greatest damage reported around Liberal. Funnel clouds were reported with the storms is miles southness of Sublette and 15 miles north of Liberal. Ness County Size p ? 2 0 0 0 0 Tornado Tornado moving east touched down briefly in open country 2-1/2 miles west of Ranson. No damage was reported. Phillips, Rawlins, Decatur, and Norton Counties Strong thunderstorms moving east through these counties were accompanied by local hail and gusty winds. There was considerable down to report a damage to home; and the produced the strong the produced heavy rains, small hail, and damaging winds estimated at 60 to 60 mph. Scattered to the small hail, and damage to home; antenable damage was reported at 4 lacht Club on Perry Lake where boats, docks, and a portion of the breakwast rail sustained wind damage. Grop damage due to wind and rain was minor. Shawnee County 11 8:15 a 0 1 4 0 Lightning Thunderstorms moved east through the county with considerable cloud to ground lightning. A workson was injured when lightning struck or workers reported feeling an electrical charge, there was considerable dop damage as well as damage to trees, utility lines, or these workers reported feeling and electrical charge. There was considerable or or damage as well as damage to trees, utility lines, or the salt produced heavy rains, small hail, and damaging winds estimated at 60 to 80 mph. Scattered reported damage was to total administration of the salt hail and gusty winds. There was considerable damage as well as pride west of falling moving east through these areas produced heavy rains, small hail, and damaging winds estimated at 60 to 40 mph. Scattered wind damage to home; and the subtine of the breakwast of the subtine of the subtine of the subtine of the subtine of the subtine of the subtine of the subtine of the subtine of the subtine of the subtine of the subtine of the subti		Loga	a. No dama	ged wa	eriefl s repor	ted.	open	countr	y 4 mi	les northwest of		8				0	0	6	4	Wind
Strong thunderstorms moving northeast through these counties produced local damaging winds. Tamage was to trees, roofs, and signs with greatest damage reported around Liberal. Funnel clouds were reported with the storms is miles southwest of Sublette and 15 miles north of Liberal. Ness County 15 miles north of Liberal. Ness County 5 5:28 p ? ? 0 0 0 0 Tornado Tornado moving east touched down briefly in open country 2-1/2 miles west of Ranson, No damage was reported. Phillips, Raxlins, Decatur, and Norton Counties Strong thunderstorms moving east through these counties were accompanied by local hail and gusty winds. There were scattered reports of hallstones to 1-3/4 inches in diameter. There was considerable dam great well as damage to trees, utility lines, east through these areas produced heavy rains, small hail, and damaging winds est intrough these areas produced heavy rains, small hail, and damaging winds est intrough these areas produced heavy rains, small hail, and damaging winds est intrough these areas produced heavy rains, small hail, and damaging winds est intrough these areas produced heavy rains, small hail, and damaging winds est intrough these areas produced heavy rains, small hail, and damaging winds est intrough these areas produced heavy rains, small hail, and damaging winds est intrough these areas produced heavy rains, small hail, and damaging winds est intrough these areas produced heavy rains, small hail, and damaging winds est intrough these areas produced heavy rains, small hail, and damaging winds est intrough these areas produced heavy rains, small hail, and damaging winds est intrough these areas produced heavy rains, small hail, and damaging winds est intrough these was hail hail, and damaging winds est intrough these was hail hail, and damaging winds est intrough these areas produced heavy rains, small hail, and damaging winds est intrough these areas produced heavy rains, small hail, and damaging winds est intrough these was hail hail, and damaging winds est intrough these w		5				0	0	5	0		Jackson, Shawnee,		,, ev b					1		
Ness County Ness County 15 miles north of Liberal. 5 5:28 p ? 7 0 0 0 0 Tornado Tornado moving east touched down briefly in open country 2-1/2 miles west of Ransom. No damage was reported. Phillips, Rawlins, Decatur, and Norton Counties 5 Evening 0 0 5 6 Hail, wind Thunderstorms moved east through the county with considerable cloud to ground lightning. A worksan was injured when lightning struck a bridge west of Toppks while repair workers reported feeling and electrical charge. Minor damage was to balled may and farm buildings if south and west portions of the country struck as bridge west of Toppks while repair work was in progress. Other workers reported feeling and electrical charge. Minor damage was to balled may and farm buildings if south and west portions of the country as a rebult of fire paused by lightning strikes.	i .	Stree		hto-	Most -	 _{pa-}) hen-	+hua-	ah +1					Ì	ļ	ļ				
Ness County Ness County 15 miles north of Liberal. 5 5:28 p ? 7 0 0 0 0 Tornado Tornado moving east touched down briefly in open country 2-1/2 miles west of Ransom. No damage was reported. Phillips, Rawlins, Decatur, and Norton Counties 5 Evening O 0 5 6 Hail, wind Tounderstorms moving east through the second struck of the progress. Other workers reported feeling and electrical charge. Hinor damage was to balled may and lightning. A workman was injured when lightning struck a bridge west pf Toppks while repair work was in progress. Other workers reported feeling and electrical charge. Hinor damage was to balled may and farm buildings if south and west portions of the country as a rebuilt of fire baused by lightning strikes.		prod	uced local s with ere	damag	ing win	is. I	amage ted	was t	o tree	s, roofs, and		A square	all line hail, an	moving d dama	east t	hroug nds e	h the	se ar	as pro	duced heavy rains,
Ness County 5 5:28 p ? ? 0 0 0 0 Tornado Tornado moving east touched down briefly in open country 2-1/2 miles west of Ranson. No damage was reported. Fhillips, Rawlins, Decatur, and Norton Counties Shawnee County 11 8:15 a 0 1 4 0 Lightning Thunderstorms moved east through the county with considerable cloud to ground lightning. A worktan was injured when lightning struck a bridge west by Toppks while repair work was in progress. Other workers reported feeling and electrical charge. Minor damage was to balled may and farm buildings in south and west portions of the county of a same country as a rebult of fire baused by lightning strikes.		Mere	Leborced	мтеп с	ne stor	ns 18	mile	s sout	hwest	of Sublette and		damaj	re to home	s. auti	omobile	s. ari	d uti	llity	lines z	eported was mostly
Tornado moving east touched down briefly in open country 2-1/2 miles west of Ransem. No damage was reported. Shawnee County 11 8:15 a	Ness County		!	1	i	0	ا ا	0	0	Tornado		Cons	iderable d boats, d	amage ocks.	was rep and a p	orted ortid	at a n of	Yach the b	: Club reakwat	on Perry Lake
Phillips, Rawlins, Decatur, and Norton Counties Strong thunderstorms moving east through these counties were accompanied by local hail and gusty winds. There were scattered reports of hallstones to 1-2/4 inches in diameter. There was considerable of the ground lighting if your west and the scattered reports of hallstones to 1-2/4 inches in diameter. There was considerable cloud to ground lighting. A workers reported feeling and electrical charge, while repair work was in progress. Other workers reported feeling and electrical charge, and west vortions of the county as a result of fire paused by lighting strikes.		Torn	ado movine	east	touched	down	brid	fly is	open		Shawnee Count-	wind	damage. d	rop da	mage div	e to h	wind	and r	in was	minor.
Decatur, and Norton Counties Strong thunderstorms moving east through these counties were accompanied by local hail and gusty winds. There were scattered reports of hailstones to 1-3/4, finches in diameter. There was considerable drop damage aw well as damage it ordes, utility lines,	J	mile	west of	Ranson	. No da	mage	WAS I	eporte	d.		' '			noved	anat 42	ii		1	i i	i
Strong thunderstorms moving east through these counties were accompanied by local hail and gusty winds. There were scattered reports of hallstones to 1-2/4 inches in diameter. There was considerable drop damage as well as danage to trees, utility lines,	Decatur, and Norton	5	Evening			٥	٥	5	6	Hail, wind		to gr	ound ligh	tning.	A work	nan w	as ir	jured	with when I	ightning struck
accompanied by local hall and gusty winds. There were scattered reports of hallstones to 1-4/4 inches in diameter. There was considerable drop damage as well as danage to trees, utility lines,		C+-				ا يا	_ i		į		1	MOLVE	te tebotr	ad ree	Ling and	eTecu	rica	T cuar	ιχe. Ni	nor damage was to i
considerable grop damage as well as damage to trees, utility lines,	i	acco	panied by	local	hail a	nd gu	sty w	inds.	There	were scattered		count	y as a re	ult o	fire	enser o m	i by	n and lightr	ing st	rikes.
		cons	iderable q	rop da	mage as	7/4 1 well	nches as d	amage i n di	ameter to tre	. There was es, utility lines,	.		ĺ	ĺ	ļ					

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		CAL	PATH	Į	NO. PER			ATED† IAGE				CAL	PATH	Į.	NO. PERS		EST IM		
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF P	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF F	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
KANSAS (continu				[]	l l	-				LOUISIANA			SEE E	ND OF	TABL	E	.		
Wichita County	l i	1:20 p	! !	!	ij	ļ			Funnel cloud	1000					1	i			
	A fun	mel cloud west of L	was r ecti.	ported	ijbyrt∤ III	he sh	eriff	about 	10 miles	MAINE Statewide	9	Evening			ا ۱	2	6	6	Severe thunder-
Reno County	14	7:30 p	İ		0	۱۰	4	0	Wind		<i></i>				.	,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		 	storm
	Heav	thunders	torms	moving	south	east	produc	ed gua	ty winds. Winds to		nort	hern Aroo	stock	County	here	heav	v down	bours !	ally severe in (3 to 4 inches in
	71 ла рожел	h were re lines do	ported,	near H and num	utchi erous	nson plat	where e glas	trees s wind	were uprooted, ows were broken.		upro	oted tree	s, rai	sed have	c wi	h pq	wer li	nes.	t roads. Winds Severe lightning
Sedgwick County	15	8:47 p		İ	0	0	4	0	Wind		\$100	,000 dam	age to	apple o	rop i	n cel	ntral	Maine	hail at Sanford. Continuous waterspout in
	Stron	g winds w	ith a	thunder	storm	in t	he Wi	hite a	rea reached gusts		Port	land Harb	or dam	aged bo	ts at	yac	ht clu	p.	water spout in
	broke	m by flyi	ng det	e to tr	pes a	70 r	ental	cars I	Windows were arked at Mid-	Central	23	և pm	1		0	1	5	14	Thunderstorms
		nent Airp	pru.			0	5	0	 Tiebinine										ine. Severe inds, heavy rain,
Saline County	18	Early morning	 				,		Lightning		hai]	a to ≥ i	nch.	Damage 1	ery	eavy	near	Bangor	. Downed trees,
	Light	ning stru	ckat	ay barn	abou	t ? =	iles	est of	Salina. The			ments. T							
ļ	stor	d in the	barn,	as well	as d	estro	ying	he bar	m.	Kingfield	23	li pm	*	ľτO	٥	0	3	3	Tornado
Clay County	18	10 to 11:00 p		!	0	0	5	0	Wind			rnado tou ing exten							angeley Lakes, ardens.
• !	Thim	i -	i	hine at	rone	winds	moved	east.	across the county			F P P	į					, ו	
	caus	ng extens	ive da	amaged t	b tre	es, i	arm b	iildin	es, and utility	MARYLAND &		1	!						D-4::
Phillips, Rooks, and Trego Counties			<u> </u>	1	0	0	5	j 6	Hail, wind		2-3 Tota		 	hn	0	-	0	!!	Rein
-	Stro	,	 storm	B movins	e east	thr	nuerh ti	hese o	 	j	Poto	pac River	and an	⊫ll str	eams :	in t	e area	left	e two-day period. their banks, for-
	cons	iderable h	mail o	f 1/2 to	d 1-3/	ii in	hes i	n diam	eter, gusty winds p damage was		mar.	No serio	s floo	ding re	sulte	i.	гвода	յուռով 	vicinity of Shal
	repo	ted as we buildings	ell as	damage	to tr	ees,	ut111	ty lin	es, roofs, and	Garrett and Allegany	10	ļ			0	0	3	0	Wind
Phillips County	21	2:45 p	Ī		0		4	5	Hail, wind	Counties	Seri	s of thur	dersto	 promos dur	ing ti	ie de	y resu	lted 1	n tree damage, thru the Grants-
, -	Thun	derstorms	novin	g northe	east s	lowly	Mele	accom	panied by heavy		vill	area abo	out 5AN	f. Anoth	er hi	t Cun	berlar	d abou	t 2:45PM.
	Heav	lest dama,	ge was	about 1	to mil	es e	to 2 st of	Phill	in diameter. ipsburg. Damage was	Central, Eastern Shore & District of Columbia	10	5:00 p 7:00 p	-	İ	0	0	5	ļ Ļ	Hail, Lightning, Wind
Russell County	21	brn, trees 2.20 -	s _{je} and !	Larma pr	0 1														l system resulted
-	1	7:30 p	ļ.,,		!!	2	5	1	Wind produced gusts of		ty,	hail repor	rted to	range	from	:wo-1	neh di	ameter	ince Georges Coun- up to the size o
	63 m	on at the	Russe	II Airpo	art, s	ind 9	3 moh.	at the	Corps of Engineers		cons	iderable o	propar	ji garde	h dam	ige.	In Mor	tgomer	roken windows and y County a Kensin
	Russ	all area.	A MAP	ina was	ARVET	lv d	ma sed	at La	ke Wilson and		esti	ated at a	50,000	, Simil	arly	on t	he Ees	tern S	sed fire, with lo hore two lightnin
	occu	pying over	turne	d. A wor	man wa Me was	s in	ured seens	5 mil er was	pailer he was ds east of Russell upset by wind.		floo	r of a hor	nde.bot	h in th	e Toll	hest	er are	a. On	lso the second Tilghman Island,
Greeley County	1	2:24 p	?	7	1	0	0	Ò	Tornado		mino	damage a	nd als	b knock	ed do	n a ma	portic	n of a	n drydock causing n unfinished cind Lightning damaged
									open country 10	· ·	cabl	e televis:	ion equ	dipment,	whil	a "	ball q	f fire	" travelled down meowners were wat
	mile	southeas	1	1	!	Ι.	1	report	∉d. I		chin	d. Combine	ition o	f wind	and 1	lghtn	ling in	terrup	ted electrical se area, Estimated
	L		! -	PECIAL F	1	1	ī				dama		e stor						\$30,000; and
	Hail seve	to on the	follo	npuse re wing dat	eporte tes, a	and i	the	pall w follow	ing counties:	Glen Burnie area,	16	1:00 p	!		0	0	3	0	Lightning
	2	 Decatur, 	Rawl	ins, She	 e ridar	1				Anne Arundel County	Ligh	ning bolt	struc	k major	sewa	ge pu	mping	statio	n, burning out a
KENTUCKY BATH, ROWAN, MENIFEE	,	2-5		\ .	\	5	1 4	Ļ	TSTM		adjo	ining cree	kand	forcing					ewage to empty in ater contact acti
MORGAN, AND WOLFE COUNTIES		PM EDT ine of he	l Bayy fi	i hunderst	torms	i		these	i	Statewide & District	20-	until fur	i no	pice.	o		6	0	Heat, Air Stagna-
	CO	nties cau es were b	ıķing⊲	consider	r≱ble	∄ama g	je. M	any		of Columbia	24 The	 	oh of	han to-	Deret)rec	l l l l l l l	evate	tion air pollution
	le ¹	eled. Fi	i∳e pei	r\$ons we	ere st	uck	Ьу				leve	is sent de	ozens o	of personent of	ns in	the	Washii v and	gton-I	air pollution altimore area to ailments, along
SHELBY COUNTY	1	I IAM EDT					5		TSTM		with	heat exh	austio:	n. On th	je Eng	tern	Shore	the po	ultry industry he heat wave,
	I A	IV repair	shop a	and a pr ghtning.	rivate	res	dence	į			repr	senting	around	an \$800	,000	loss		i	,
		e struck vily dama und.	aged a	npt the h	hbme t	urne ļ	to t	He 		Eastern Shore	25		j.	İ	0	0	3	!!	Rain
HARDIN COUNTY	30	EVE		1	2		Ì .		TSTM		Weak brin	low pres	sure co	nter for	rmed ain t	on to	pe sec	edge ions	of cold front, uring the 24-hour
	Th	ree people ghtning h	e were it an	walking earby to	g to a	Car Two	when eaple	İ			Quee	pd. Many n Annes,	roads Talbot	and some	grou	nd f. Cou	toors :	ere f	uring the 24-house coded over Kent, t some said was area.
	We	re killed !	and a	nother v	was in	jure !	9. 	1			1	į.	Ì	chat the	1 1		!	ĺ	[
FAYETTE COUNTY	l A	5AM EDT severe the	unders	torm may	ved th	ru L	xingt	on J	TSTM	Dentsville, Charles County	31		ì		0	0	4 	ì	Lightning
•	Th	oducing w	numero	us repoi	rts of						Loss	includi	n i g tra	dtor, ta	uck,				by resulting fir y stored inside,
		roof and				ĺ	İ			Fastown Wasse	esti 31	nated at	1	men \$20, 	000.	0	<u> </u>		Lightning
	1									Eastern Shore	4 31	7:00 a	,		. U	v	1 4		TATABLE ANT THE
LEXINGTON, RICHMOND FRANKFORT, &	1	i 				į					_	!	1	 	!!	מיי פל	and 4	f	! -
	30	9 PM EDT				 	?	 			_	!	1	re destr ity of (!!	barn oro,	and i	f	! -
FRANKFORT, &	30		evere dama	thunder:	storms	cau	ļ.,	 			Lighted four	tning-cau	ged fivicin	re destr ity of (alisbury s, doing	pyed oldst ligh	barn oro, tnin r da y ma	and i Carol glente mage	s cont ne Cont red with In add:	ents of 2600 bale inty - loss estima dow and shot thru tion, a 252-year- ealth a fatal blo

		T.	Τ.	Т	120	. OF	Fev.	IATED†	1		\Box	l .	-	1	٠	. OF	Ec.	MTEDT	JULY 1976
		CAL	PATH	Ę		SONS		AAGE]			CAL	PATH	Ę		SONS		MAGE	
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
MARYLAND &	f			100	0		4		Tornado	MICHIGAN (con	1	1	ļ		ļ	ļ		l _i	
Frederick County	31 Appa	1	i	i	í	Î	1.		ore thru section at	Paw Paw, Van Buren		5:45 pm ck seven	oft b	11 pla	0 yers	7 incl	ding	g young	Lightning girl who was
	base	of Sugar	Loaf 1	ountain	i near	Urba	na. M	any lan	ge trees within al roads blocked		run	ing while	holdi	ng an u	фbre1	ļa.	A11 s	eþen ve	re at a ball field l was hit direc-
	by f	allen tree	≱s andi	about 1	1,000	area	homes	were	ithout electrical pe of the mountain.		tly	and had t	be r	evived	dsing	CPR	. The	bthers	received minor d at their feet.
Central & Eastern Shor			1	1	0	7	6		Wind, Rain, Hail,	An area south of Musk-	1	i		j. I.	0		5		Thunderstorms
			İ	İ	!		İ		Lightning	egon, Saginaw and Bad Axe.		& Early Morning		ľ	*	ļ	-		
									ds in excess of ion of Ft. Meade	Daw Azc.		tning and							he area. Lightning ther barn in
	knoc	ked down,	kausi.	ng exter	sive	dama	ge to	severa:	es damaged or housing units and		Mar	ette and	home	in Ann	Arbo	ж. <i>і</i>	hothe	n home	in Jackson was hit ing the ceiling
	trea	tment of n	dinor :	injuries	a. Mot	el i	nort	hern A	o hospital for ne Arundel County		pla	ter. Lig	htning	lalso k	nocke	da 1	rajor (Frand F	apids radio station
•	had	roof rippe	d off	five ro	opms,	cars	in pa	nking :	ot whipped into uries caused by		dis	lays at a	Ann .	Arbor a	tt fa	фr.	Subst	antial	lanti and damaged tree damage also
	flyi	hg glass.	Over t	tihree an	ak1 one	hal:	inch!	ds of :	ain was reported rred in many areas.										uses and trans- roughout the area.
	Near	Easton, T	Halbot	County,	two	chici	en ho	uses w	re levelled by se from fallen trees see Georges and	An area south and west	22-	Evening	i i	į	0	0	5	į	 Thunderstorms
	and/	or wind, re	in and	heil r	eport	ed 1	n Howa	d Pri	ce Georges and	of Holland, Battle Creek, and Coldwater.	23	& Early Morning	İ	i		Ì		į]
	ł	imore cour	icies,	with so	me 30	,000 ا	nomes	Withou	it power for a time.	•	Ligi fel	tning and	55 MP roads	H winds	ing s	th the	rough	the are	a. Numerous trees lamazoo, and crush-
MASSACHUSET] 1:30AM		1	į j 0	į į 0	4	j j0	Lightning		ing	a childs	wing ear Mi	set in	Bridg	nan.	Ligh	dning o	lamazoo, and crush- aused an 80,000 foot barn along
	Liq	tning s	i truck	a hou	j stec	j ausi	ng a	l				large am							
	and	complet	e des	tructi	φn.					An area south of		605-830p		 	0	1			Thunderstorms
Sutton	23	10:30PM	Ì	İ	0	0	. 3	0	Lightning	Crystal Falls, Petoske and East Tawas.	thr	de corrido	rs of	heavy t	tee a	ahd po	wer 1	ne dan	age. One corridor
	A t	ree thre	fee	in d	ame	er	was k	nocke	<u> </u>		Mic	igan bord	er to	Bark Ri	ver a	ahd Pa	rronv:	ille ju	the Wisconsin- st west of Escana-
· ·		tained d			1 00	!	i i		•"		to	Crystal Va	lley i	h Ocean	a cou	hty,	and s	till ar	from Silver Lake other stretched
Sandisfield	28	12:30AM	1/8	100	0	0	2	0	Tornado	· '	Saug	stuck, Fer	inville	, the	Nine :	Dake	area r	orth o	maged areas include Marcellus and
	A si	hall tor	pado iliah	proot	ed s	ever	al tr	es a	hd		the	entire eas	itern s	nde of	Detr	dit f	tom Gr	mage P	hinte woods to
Western portions	l	Midnigh	İ	Pore	! !	į,			11.41.4.		stru to a	cture in d	owntov	n Detre	it w	hen 8	MPH B were	vinds	to a parking
Heatern portrons	20	-4AM	Ì	İ	0	0 	4	0	Lightning, wind, hail		Rena in t	issance Co he Detroit	nter 1	uildin	and	10 b	pats w	ere sw	out of Detroits amped or overturned Clair. The f, following the
	Seve	eral hou	ses w	ere st	uck	an	t one	was			Coas	t Guard re	scued	some 3	peo	ple f	ron th	wate	r, following the Bay City and a
	and	destroye power 1	ines 1	were w	recki	ed.	ansto 9/4 i	rmers nch		*	27 3	por cabin	cruise	r was i	lown	[up o	h the	leach '	est of Sagugatuck.
	naı	occurre ·	ed at i	Pitts	fiel	μ. !		 			13 h	pones, 2 ba	rns, l	garage	e. and	dah	alf do	zen ve	ere 3 mobile homes, nicles and trac-
MICHIGAN 3 W South Haven		8:00 am	!	}	1		0	l I	Thunderstorm		and	several bu	siness	bulld	ings :	in Ba	d Axe	suffer.	ank in Sterling
Lake Michigan	A 61 whil	year old e attempti	man w	as swept	d out	of h	is boa	t by w thers	ind and waves on board the		wago	p near Rut	h, Mid	higan s	as b	lown	off th	e road	pulling a hay crushing the head
	boat	witnessed	the :	incident	4.				-		to c	ause power	outag	es to :	\$0,000	0 hom	es and	jbusin	and winds combined sses throughout
An area North of Berg- land, Gwinn and St.	Two	3-9:30 pm or three 1	faroe i	hunders	0 torm	0 clus	5 ters m	C oved t	Thunderstorms arough the area.		enti	re police,	radio	system	in K	å1ama	zoo.	Bail a	dillac and the
Ignace in Upper Mich- igan.	Drop	ping large	hail	four i	inch i	ains	and w	hippin	g up winds of building lost		1	rts listed	below	are pa	rt o	f thi	stor	‡r. I	
	part	or its ro	of in	iOntonas	ton.	Tree	s and	bower	poles were down se in Ontonagon	4 W Holland and Zeel- and, Allegan and Ottaw	26 1 i	1:35 pm nch hail r	eporte	d along	0 the	0 Lake	UNK Michi	gan she	Hail re.
	and	on three	ars in	6ault	Ste.	Mari	e. Ha	rdest	nit by winds	counties.		<u> </u>			ļ		İ		
	Hail	reports	isted	below v	ere	part	of thi	s stor	n, marie.	3 SW Jamestown, Ottawa	26	Early Afternoon			0	1	2	C.	Hail
1 W Troivola to 2 S	19	330-425p	13	7,000	0	0	5	,c	Hail		in c	3/4 inch	hail de with	maged Wind by	pickl oke	emand indo	born c	rops in	the area. Hail m house cutting
Hubbell, Houghton	dama	ge sustaid	led by	homes a	ind bu	ıildi	ngs ov	er a w	window and roof ide area. Cars,		the	ace of an	eight	year o	ld gi	r1.]	181	- nouse carring
	brok	en windshi	elds (ind tail	ligh	ıts,	and tr	actors	ocks suffering losing instru-	2 S New Troy, Berrien	26	Early Afternoon			0	0			Funnel Cloud
	ment part	glass. icularily	50,000 potate	damage es, oa	was s, h	done 1y, c	to ga	rdens	and crops, let fields in a		Repo	ted by po	lice.		İ	j I			
	2 1/ Houg	2 mile wid nton.	le stri	p along	par	dise	road	etwee	let fields in a n Chassell and	Rockford, Kent		Afternoon			0	0			Funnel Cloud
2 W Chatham, to	1	5:30 pm.	11	4.500	,	0	5	c	Hail		1	ed by the	publi _i	с.					
	1 to	3½ inch b	ail c	vered (he g	ound	in th	e area	Extensive	Charlotte, Eaton	One :	13:00 pm nch hail	report	ed.	0	0	UNK		Hail
	Some	buildings	had a	11 the	winds	ws of	h one i	side k	ocked out, others cars and trucks	Dimondale, Eaton	26 1 3/	3:35 pm 4 inch hai	l repo	rted.	0	0	UNK		Hail
	were	badly pit	ted at	d many	suff	red	roken	windo	glass. Home	Fowlerville, Living-	26	4:00 pm			0	0	UNK		Hail
	dama	ge was in	and a	ound th	e to	n of	ChatH	na.	-ore or tile	ston.	Soft port	ball sized	hail	reporte	d by	resi	lents	ut no	damage was re-
An area south and west of Grand Haven, Mt.		Evening & Early	į	ļ	٥	0	5	ļ	Thunderstorms	Manchester, Washtenaw		6:20 թա			0	0.	UNK		Hail
Pleasant, and Cold- water.	- i	Morning	j i	air.	d a	إ	, 		in lighteries			pall size	hail n	eported	ı. İ		JIA	į į	wail
	thrd	ugh the af	ea. 🛊	lind dam	aged	the b	roofs	of foul	e lightning moved buildings, des-	Milan and S. Rockwood, Washtenaw, Monroe			ا ا	hall -	0	0	3		Hail g cars and doing
	Vest	aburg. Al	grain	wagon t	as bi	own b	over di	nd the	ck area in roof was ripped	, IMILVE	mino	r damage t	o home	s and S	arde	11ali	terr,	l las	g cars and doing ed about 5
1	troy	a garage à ed a TV se	nd bar	n complortage,	ex ne	ar Sk fire	to a	ottage	Lightning des= near Cassopolis	Lake Orion, Oakland	i	- 1	į	.	- 1				
	and s	shatteredi were fout	a larg d 75:ÿ	e box ¢ ards:fi	lder om th	tree e stu	in Thi	ee Oak ightni	es. Parts of the		15 i	Afternoon ach hail a	eporte	d.			UNK		Hail
	out a	all the rt	nway 1	ights a	t Ken ered	t Compower	nty A	rport	at Grand Rapids		26	Afternoon					UNK		Hail
	out p	the area.	The 1	ightnin	g re	orts	liste	i belo	was part of		GOLE	ball size	hail:	rell du	ring	a do	mpour		
ľ	į	í	1	ĺ	í	į	í	1	Ì		ļ	į	- !	į	ļ	į	ļ	į	İ

	1			1	_						<u> </u>				Г—				JULY 1978
	'	J.	PATH	Ξ		OF E		ATED¹ IAGE				CAL	PATH	Ξ		OF SONS		ATED [†]	
PLACE		TIME - LOCAL STANDARD	P (8)	WIDTH OF PATH (YARDS)	\vdash		_		CHARACTER	DIACE		TIME - LOCAL STANDARD	OF P	WIDTH OF PATH (YARDS)			<u> </u>		CHARACTER OF
PLACE	l	. 2 TAOF	王를	YAR	e	æ	EET		DF STORM	PLACE		S VDA	TH (YARI	a	Œ	ERT	بر	STORM
į	DATE	T A T	LENGTH OF (MILES)	Į.	KILLED	INJURED	PROPERTY	CROPS			DATE	FIM	LENGTH OF F (MILES)	MIDT)	KILLED	INJURED	PROPERTY	CROPS	
1.1111111111111111111111111111111111111					ئ					MININGOTA (_					
MINNESOTA Gary, Fosston, Norman	5	1:56AM	75	400	4	38	7	i 6	Tomado	MINNESOTA (co	ontun 	! ' '							
Mahnomen, Polk, and Clearwater Counties	'	ļ	i	ł	i				i	West Minneapolis Suburbs	Mass	8:30PM	lna wes	- terns	l 0 burbs	0 softwae	6 to he	avy ra	Flooding in. 250 homes
CICIIWACE COMME	Nort	Dakota 1	order	where t	raile	r was d	demo!	Lished	mon County near Moving south-	Hennepin County	esti sewe	mated with	1 flood 5 1/4	led base inches	ments of	in (rysta n 4 1	1 due: 1/2 hour	in. 250 homes to overworked rs at Crystal. ing 6000 customers; Highway 12 some spots. highways. Hennepin
	ston	ned at 1:5	16 AM 6	entral	time.	Onné t	thir	lof G	mere clocks were ary flattened by		Powe	outage i	eporte	d Mound	and	Minne	tonka	affec	ing 6000 customers
	+	hdo - 22 h	hireac	dectm	be∂ at	ia 48ì a	amage	<u>l</u> d - 10	mobile homes also extensive damage to		traf	fic rerou	ed due	to wat	er 4	1/4	eet d	eep in	some spots.
i	am	k and tree	±s.πt	tree ki	fled a	ınd 35 i	iniu	ted. 20	seriously. 80 (ral floods ty declars				her s	treet	s and l	nighways. Hennepin
	+-	wh Madage	d-lane	Tomade	ni comi	tinued r	narti	meast 1	tely without power	Victoria and	8	9:00PM	-	_	1 0	0	4	5	Heavy rain
	seco	nd time at	Foss	ion, who	re i	destro	oyed	count	y nam, 15 to 20	Waconia Carver County	D	l i	i 14 11.1	DM CC	Wac	l Inia	- Contract	h∂ 5.1	notes of rain
	lbmi 1	Hings. Or	1e kil	led. 9 l	lospi 1	alized	at	rossta	n. Storm continued es and felling	Carver County	whil	Victoria	reœi	ved 3	/2 ir	ches	240	basem	2 inches of rain ents in Wac onia
	many	large tr	es.	rempora	y po	er out	age a	and at	least two injured			rable eros						n vice	pria. Con- I
	dama	me include	ed ria	ttened (main	TIETOS	, an	a aoze	IP OT TOTAL	Rollag	12	3:30PM	- '	-	0	0	3	0	 Tornado
	buil	flings inc	luding and d	granar.	ies, I ion t	oarms a timbe	nd m rwa	achine sexte	sheds. Many nsive. Several	Clay County	Tom	ado touche	d down	 brief	l Llyand	dam	ageds	dine tin	es and outbuilding
	plan	es were de	stroy	and and	i new	temin	al b	µildin win Va	n suffered heavy		on a	farm.	į	ĺ	ſ		-		_
	dist	inct path	s in t	ne area	of T	vin Val	ley	sugges	ts a family type	South Pape County	12	5:00PM	-	-	0	0	4	0	Lightning
]	of t	prmadic a he tornad	¢tivit bes pa	y. At th, and	wisti stra	ng acti Ight li	ne a	hg gow h cree	nourst damage to				cattl	e kille	d by	ligh	ning	s the	stood near a
	an a	dditional	width touch	of 2 towns m	φ4 m ainly	iles. at Gar	Also yan	, ask d Foss	pping of the con. Counties of		sing	le tree.		i	İ				
	Mahr	pomen, Non	man, a	d Polk	decl	ared ma	jor	disast	er areas with	Southern Beltrami County	12	5:45PM	-	-	0	0	4	6	Hail
	27 h	pomes dest	oyed,	67 wit	n maj	r dana	ge,	and 13	4 minor damage.		Hail	stones 3/4	inch	to 2 ir	ches	caus	ed con	sidera	ble damage to orm was part of a
	bui.	nobile hom Lidings and	es des grain	proyed storag	end l	lities	des	troyed	is a family type is was indicated hourst damage to ipping of the form. Counties of ar areas with homeless. I minor damage. Limated 250 farm in 3 counties.		larg	er storm s	ystem	moving	east	vard	throug	n cent	ral Minnesota.
Rochester Olmsted County	5-6	6PM] -	} -	5	0	8	5	Flood		Near	ly 400 son	!!	lles we	! !	1	i		
Officed County	Tori	ential ra	ins th	at bega	Wed	esday	even	ng Ju	y 5 at &PM CST	6S Eden Valley Meeker County	12	i	!!	90	0	0	5	4	Tornado
	duri	more or lang the even	elss co elning	dtinuou and con	e til tinue	2AM In	ursd foot	per h	iver started rising our during the		The	tornado so	unded	like a	train	o com	ing ri	ght in	to the house. With on Klindt-Royer
	nigt	t. Offic	ial me	asureme	nt of	5.8 Ln	iches	most	our during the of which fell in Zumbro river Lso a new record		farm	and 14 he	ad of	registe	tred 1	tolst	ein ca	¢tle w	ere dead. The
1	cres	bed about	10AM	hursda	Jul	6 at	22.5	ft. a	so a new record		skir	oed along	la pati	8 to .	1 0 mil	les 1	ana da	ding mi	nding. Tornado nor damage to
	disa	poistage ster in a	Imost	100 yea	dicour nda cour	ithe w	orst	pester flood	s worst natural in the city's		fam	building	and o	brops.	Dire	tion	of tr	tavelw 	as to the northeast
	hist	ory. One dated by	ifourt turbul	hofci ∉ntflo	tty, m ddwa	inly's ters	outh feet	land n lokeep	brtheast sections, or more. 4 persons,	12N Motley Cass County	12	6:20PM	100 yds	50	0	0	2	2	Tornado
	a m	rses aide	and 3	wheeld	hair :	batieht	s in	nursi	ng homme trapped in lunged off a	cass county	Torn	ado touche	-	penco	l Ontry	 with	littl	! Ledama	e. Direction
	cour	ty road 1	0 sout	hwest R	dches	ter, jN	earl	∲ 5000	residents forced d Beaver Creek		of t	ravel was	to the	east.	-	 	!	1	
	Stat	e Parks a	‡so ev	cuated	. FЪ	od wat	ers	vhiske	ditons of uprooted	Nimrod	12	6: 30PM	90	40	0	0	2	0	Tornado
	swer	taway. 1	Many c	ars ove	itum	d orls	wept	iaway.	f. Several bridges Some carried for	Wadena County	Torn	pado touche	yds d dowr	brief	y can	sing	some	tree d	amages. Direction
1	bloo	ks. Baser foundation	ments onsoo	flooded Napsin	d. P	w with wer an	wat d be	er abo Lephon	we first floor with		of t	ravel was	itothe I	east.	<u> </u>			ĺ	
	œnt	ral Roche:	gter w	ijth no	traff	lc Ligh	ıts i	ni oper	ation. 80% of city ber. Many	New Brighton	12	7:00AM	-	-	0	0	4	4	Wind and hail
	busi	hesses and	d shop	ding œ	ters	closed	due	flood	ing and lack of	Ramsey County	Wind	of 70 mph ge to tree	and h	ail the	size	of l	aseba	ils can	sed considerable
	ment	plant ou	ofc	ommissi	guær on.	andic	asn	regist	ers. Sewage treat-	Garrison	12	8:30PM	-	i -	Γ Ιο	1 0	3	1	Hail
Northwest Chippewa	6	3:30PM	20	,	į,				1	Crow Wing County		ŀ	į		!	!		1	
County	1	!	Ī	1	0	! !	4	6	Hail		fell	in the G	rrisor	area a	pround	8:3	DPM CS	rt. Ha	at extensive hail Il stones the
	sect	ions of C	ippew	Count	yl. D	mage ji	n to	vns wa	ard over northwest s minor but crop										m was part of a Minnesota.
}	loss	es were h	avy w	ith man	y are	‡satjo i i	tal	loss.		Isanti County	12	9:30PM	[_	0	0	4	i	 Heavy rain
Benton County	6-7	6:00PM	-	-	3	0	5	6	Flash flood	'	"	ļ	i	one h	į	İ	!	İ	4 of county while
									ash flooding on		rema	inder of	downty	had up	to f	ve i	nches.	Ane	Iderly couple had
İ	in p	lunged in	do was	hed-out	culv	rts.	Arou	nd 60	they were riding square miles were		hail	caused α	nside	able d	mage	to a	rops.	Consi	Spotty pea size derable crop
	brić	iges as we	1,1 as	farm an	ർ നേത	damag	pe. Ū	bunty	ulverts and and township		made	a complet	e cir	le dur	ing ti				F. Wind direction of crop loss
	road 20 d	s had 114	washp	outs.	Five i	ridge	s we	ne dam	aged along with			termined a				į	[į	j -
3E Pipestone Pipestone County	6	7:00PM	10	*5	١٥	0	4	6	Hail	Alden and Albert Lea	12	10:12PM	-	-	0	0	4	4	Hail
	Ext	ensive dan	nage to	com,	soy t	ean and	d sma	ll gra	in crops due to 190 percent over	Freeborn County									rinds greater than
·	mos	tjof area.	Wind	ls in e	keess	φ£ 70 п	miles	per i	nour reported at			n and near							ing caused most
	Lak	e Wilson.		1	į			ĺ		NW Wells		į i			İ	į		Ì	}
Pipestone, Rock, Murray, Cottonwood,	6	7:00PM	-	-	0	0	5	6	Wind	NW Fairbault County	12	10:30PM	7	2000	0	0	4	5	Hail
Kenwood Counties	Win	exœedi	ulg 70	riph but	Efete	south	west	linnes	opta Counties.										by pea to golfball
	Sev	epre damage	to α	orn and	soybe	an as∣v	we∐	as oth	mer small grains and and heavy rain.		hail	covered t	the gro	jund to	a de	th o	‡ione	inch.	thusual thing
		eldamage t										t storm wa mate range						est. (crop damage
Nobles County	6	7:30PM	-	-	0	0	5	5	Wind	SW Blue Earth County	15	1:35AM	5	 *3		0	l	5	 Hail
,	Win	in exces	s of	70 mpho	dused	extens	sive	damage	to farm buildings	on muse partit county	l	ì	ŀ	l -	ì		i		į
	thr	oughout o	ounty.	Heavie	est da	mage ho	orth	west to	o thirds of ted at \$100,000.		soyt	beans in th	he Map	leton a	nid Da	ivill	area	is 5	bent crop loss to miles long and
	Man	y pigs, ca	ulves a	and mill	c cows	killed	d. 1	000,¢	volt power line										timeduring storm.
	rip	ped from q	pround	Adrian	area	with to	ree o	damage	pver much of	35W-Chokio Stevens County	15	3:15PM	2	75	0	İ٥	4	4	Tornado
		ndry. Exte abore to far			‡το α	μπandi !!	STN2.	щgra: I	ins but heaviest	Savets Watey									several farms
		[İ	İ		[[İ			crop	koying a p s. Appar	ent mor	um and vement	mine was t	acre the	east.	ADI TOM	ers plus other
I	1	F	1	:	i .	 f 		:	1	1.1									

				·						,—								JULY 1978
	CAL	PATH	¥		OF SONS		ATED†		,		CAL	РАТН	Ę	NO. PER	OF SONS	ESTIM/ DAM		
PLACE	DATE TIME - LOCAL STANDARD	LENGTH OF F	WIDTH OF PATH	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF F	WIDTH OF PATH (YARDS)	מורנם	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
MINNESOTA (co	ntinued)	- 	1	1				· · · ·	MINNESOTA (c	ontin	ued)			<u> </u>		!		
Hayfield Dodge County	15 5:30	- 1	*5	0	0	4	5	Hail	Southern half Watonwan County	25		1 1	-	0	0 1	4		Strong Winds in caused damage to
	damage to o	rops ir	ıaifive	squan	d mile	area	aroun	aused considerable Hayfield. Hail funnel clouds		an a	rea of cre sighted in	ps 36	miles 1	ong a	nd 1	mile	wide	. A funnel cloud
	were report	ed near	r Dodge C	enter	and C	larem	nt.	Turner Crouds	Rochester	26	0540AM			0	0	3		Strong Wind
Faribault County	l i	PM 16	1 '	0	0	4	5	Hail	Olmsted County	Stro	ng winds	f 53 n	ph hit	the I	oches	ter A	rport	and local area.
	broke windo	ws jand	fracture	d sid	ing.	Wind o	driven	trong winds that pea to golfball	31E 1600	1	i	!			i	i		he field.
	in an area	ausea o	s long b	ngie ou Ny 2∙m	amage les w	ide.	One h	ne county road 19 indred percent loss	3NE MCGregor Aitkin and Carlton Counties	28 A to	6:40PM mađoskij	18 ped ac	*1/2 ross th	ree t	0 Ownst	ips o	E McGre	Tornado gor, Clark, and
	ground to r	ore tha	ın one in	dr du	ring s	torm	and one	Hail covered the to two inches	Carron Countries	Salo	in a sou	theast	directi	on da	magir	g som	≥ 30 fa	rms in all. At bserved along with or damaged but
SE Steele County	15 7:30	- 1 -	ł	0		4	! 5	Hail		only	∣a. dog an⊲	la cal	if was ∤	iille	i. Or	ie tra	iler ho	me was completely
	An area 6 m	iles lo	ong and o	ne mi	le wi d	e was	hit b	7 1/2 inch to 3/4		dama	ge along o	ionuta ionuta	proads 1	phail 12 ano	repor	rted a	t Moose	Lake. Much of
	only partia soybeans.	ith lan	ngerstom memed by	es to hail.	Cons	nch in idera	idiam ble lo	ter. Ground was s to corn and	8N Worthington Nobles County	6	8:00PM		<u> </u>) ·		i i	¦ · 	Funnel Cloud
Olmsted, Goodhue, Wabasha and	15 8:00	i	- -	0	0	4	1	Hail and Wind	Perch Lake St. Louis County	12	8:47PM 	ļ	 					Funnel Cloud
Mower Counties	from 3/4 ir	ich to d mph o	plifball	size l	but al	d not	cover	duced hailstones the ground. sed considerable	8W Garrison Crow Wing County	12	8:50PM		 				i 	Funnel Cloud
Austin Mower County	16-17 4:00	AM -	. _	0	0	6	ł	Flood	SRN Morris Stevens County	15	4:15PM					ļ !		Funnel Cloud
	Sevent to ei with eight	ghtiine indhes	theis of r reporded	anin w I at B	als rep	orted ale j	the no	d in Austin. ght of the 16th theast of Austin.	Claremont Dodge County	15	9:00PM	ŀ		 	 	 - -	 	Funnel Cloud
	about 4AM.	The re	cord sur	de of	water	came	mostly	on of Austin from creeks	Dodge Center Dodge County	15	9:00PM			İ		!	ļ	Funnel Cloud
	20.35 feet, goes on.	a new	necord.	ine No di	eaths r	ager were:	eporte	a crest of d and the clean-up	5W Crockston Polk County	17	10:47PM	ļ		<u> </u> 		 		Funnel Cloud
Hayfield Dodge County	16 4:00 Brief hail	3/4 inc	n boli	o non w	0 ith pr	4 ecipi	ation	Hail of 2.10 inch	Climax Polk County	21	2:45PM			 				Funnel Cloud
Grand Meadow Mower County	16 10:3	MAC	- -	0	0	5	5	nrough Dodge county. Heavy Rain Flash flooding	25W Warren Marshall County	24	7:05PM	<u> </u>] 			Funnel Cloud
	additional water for	3 inch atime	esto6i and many	inches washo	of re	in. porte	All ro	eceived an ads were under one bridge out.	S Viking Marshall County	24	7:16PM		 	 	 			Funnel Cloud
	on yard an	î fijeld	sijn the	drea.	Cro	dama	o†eand	bris deposited dollar cost to d. Sewage ponds	5E Warren Marshall County	24	7:17PM		 				:	Funnel Cloud
	at Grand M could be d	eadidw c	ontlinued	to ov	erflo	and	ittle	if anything	55W Ogema Becker County	24	10:00PM		 	<u>i</u>				Funnel Cloud
Fosston Polk County	17 5:00	nt hious	e and gar	o raige u	nit d	maged	by 65	Strong Winds mph winds.	5SE Butterfield Watonwan County	25	 11:07PM 		 	 				Funnel Cloud
	with the s	tom.		į	ļį			ainfall occurred	8W St. James Watonwan County	31	7:30PM			İ				Funnel Cloud
NW Pennington County	l i	OPM 1/ ormaldio	- 1		0 the	3 inter	1	Tormado of Highway 1 and	MISSISSIPPI Hinds County	1,	2:15PM	İ		10		i ;	0	Thunderstorm, high
	county rowing dama	ad 110. ge epethe	Molvement holed two	twas miles	toward	the	eastno	rtheast. Strong beast. Damage		The c	İ	air f	on a s	!	!	i		winds sed gusts to a
	mostly to	- !	1 -				ļ	i 		repor Jacks	ted 90 mp	h brie mgar w	ly at as part	lawki Lally	ns Fi dero	eld ai ofed a	rport	in the city of eral small planes
6N Goodland Itasca County	19 12:3 A tomado	alorig w	100 ith heavy	rain	damaq	4 ped mo	stly t	Tormado rees and one		were	blown abo	put and	sustai	piedid 	amage	٠		
	summer hom	Pati	hwasan	mile 1	dng in	an e	asterl	y direction.	Rankin County	10	5:30 PM	i		1	0	0	!!	Thunderstorm, lightning
3NW Wells Fairbault County	l i	SPM 1/. mado d	1	one h	0 i	4 d ser	1	Tornado injured 2 head			d while a							lightning and
	of cattle was twiste	of the lorit	15 head t s foundat	hat w	ere in No ca	the:	barn. mage o	A second barn r other damage in	Madison County	10	5:30 PM	ı İ	!	0	0]] 3 		Thunderstorm, high winds
	area was n	eported	. Direct	zion o	of tasay	el wa	s to t	he eastsoutheast.		Ross	Barnett F	eservo	ir. At	leas	t the	ee boa	t the ts san	south end of k where they
Hills Rock County	20 6:3 Winds of 9:		ause cons		l lle ro	5 ofan		Wind damage. One		were	moored; o	nie was agains	a hous t the p	∳ boa	≱t. S	everal	other	small boats oored during
	him. Seve:	orted w	nen worke ns and fa	er tel	Litron meswe	re da	and c	hain saw struck along with two	Inchase Courts	the 1	igh wind	Ì	ĺ					
	silos, Tw	he∳ad∢	of phogs w	venre k	illed	and a	metal	rood and auger to be destroyed.	Jackson County	A war	10:30 AM erspout m	pved i	40 nland a	O Gau	tier,	3 near	 Pascag	Waterspout/Tornado oula. It
Climax Polk County	21 2:00	PM 1/	4 30	0	0	2	0	Tornado e in a northeastly		powe:	lines, d	id min	br dama	ge to	one	home,	a mobi	ree onto some le home, and
	arrection	and Idis	apated.	litt	e if	my da	hage r	eported.		one a	utomobile		= 2 CO 	min	les	μι 188	ced.	
7N Crookston Polk County	24 9:20 9:25	PM 1 1			0	0	0 4	(2) Tornadoes			 				 			
	any damage moved sout	. The	second to	ozhado	cause	ed mos	t dama	ausing little if ge to crops as it			<u> </u>		1 } 	! !	1 			
10NE McIntosh	24 9:30	!	-	0	0	4	0	 Lightning			! !		 					
Polk County	Sixteen Ho struck by	lstein lightni	heifers t	fre	shen i	n Aug	dst or	September were a in thick timber			i !				į			
	from the s	tom.	1	1				l and thirt						1	! !			
L	I I		1					1	1	1	i	i i	ŀ	i	i	i ¦		

	1			r	1.		r					-			Γ				JULY 1978
		CAL	PATH	Į.		OF SONS		ATED† IAGE				CAL	РАТН	E	NO. (PERS		ESTIM/ DAM		
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF P	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF P (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
MISSOURI		2 22			ا م ا	 _	_	,	Wênê	MISSOURI (cont				_		, [, (_	
Paris, Monroe County	Stron								Wind 90-foot machine	Entire State	A 18	2-11 pm rge area o	? of thur	? derstor	ns nov	6 red	6 east s	outhea	Severe Thunderstorms
	of da	mage to	arm i	plement	s st	pred	inside	. Dam	ndetermined amount age was reported to		wind	, lightni	ng, and	hail d	amage.	. In	Clint	on, H	sing extensive enry County, Wanda
									cols. Four hog ne storm,		head	cuts and	bruise	s when	the d1	888	was si	atter	In suffered fore-
Marshall, Saline	1	11 pa	?	?	0	0	3	0	Lightning		wind the	ow. Mr. 8 front door	Mrs. when	Ralph F the 36	oxell x 36 g	were lass	watch door	ning the	ne storm through lown in. Mrs.
County									re killed while lightning.		Boxe	ll suffere e Mr. Boxe	dale	ceratio	n of t	he r	ight e	er an	head bruises,
Monroe and Chariton	1 1	Opm-12am	?	. 7	0	0	4	. 0	Wind		B113	Tate trai	ller ed	niret fo	nonthe	tee	Odess	Laf	vette County was
Counties									g huts and a util- k farm southwest		sust a sh	ained cuts oulder in	and t	ruises At the	on her	arı	s, and	i Stev	Rhonda Tate Cordell received essa, Bruce Katch- roof at the east
									y, southwest of ndows broken at		mari end	k received	bruis	es and caved i	lacera	tio	s wher	the	roof at the east wall was blown on
	the C	andy home	. A	arge 1	mb d	anage	i a ga	rage a	t the James Bausher r lines, and TV		top	of it. Ma	nv tre	es and	limbs	were	downe	d. ta	ding their toll as
		nas were									dama	ged or des	troyed	numero	us far	TO A	d out	build	i fences. Wind ings, roofs, build- meys, and windows.
Walnut Grove, Greene County		6:45 pm	? lv pa	? rtv turi	l ned in	0 nto a	0 trage	0 dv for	Lightning a Greene County		Wind	complete	y dest	royed a	300-f	oot	three	story	meys, and windows. barn at the turkey Pulaski County.
	famil:	y when a	bolt	of light	ining	stru	ek and	kille	i a nine year-old This family had	1	The	company co	ntract	ing the	turke	ys s mded	ent t	rucks i	o pick up what
	gathe	red at th	he hom	of his	s moti	her t	cele	brate	Independence Day. eryone inside ex-		Coun	ty, gustin	g wind	s colls	psed s	50	x 50-	Coot s	ection of Francis biles. Areas
	cept !	Marty. ' struck a	She c	ane runi	ning e	acros	the :	yard j	ist as the light-		hard	est hit wh	ere de	mage we	s quit	e cc	ncent	rate w	re Holden in John- State Water Patrol
County County	1	9:15 pm	,	7	0	0	,	0	Lightning		in J	efferson (ity es	timated	damag	e to	boats	and	locks on the Lake
Grundy County	Light	ning was				fire		destr	yed a barn on the reys. Also de-		Are	me storm i	juries	were r	eporte	ed, b	ut no	serio	locks on the Lake 3/4 million or more, us injuries. Winds sage House, causing
		ed in the									an e	the room	250,00	O damag	e. Li	ght	ing a	so to	ok its toll. A
Poplar Bluff, Butler County		11:10am	?	?	0	0	3 Ff ner	0	Wind me roof of the R-1		Coun	ty, and fi	re ext	ensivel	y dama	ged	a hous	e in (ok its toll. A est Plains, Howell chillicothe in Liv-
County	Schoo	l Distric	t's G	orge L	onghea	ad Le	rning	Cente	the old Tiffany		powe	r equipmen	t in t	he Chil	licoth	евф	ibstat i	on we	rned, and the extensively dam-
	limbs	which de	owned	power 1:	ines.		1.003				bean	in numer	ous co	unties.	Some	100	al fl	ood ing	of corn and soy- was reported, and
Northwest and North Central Missouri	An ar	Opm-12am ea of th	nders	torms m	0 oved	0 eastw	4 ard th	rough:	Severe Thunderstorm		wate	r crossing	of Si	ut-In E	ranch	on t	he old	Tusc	shed out of a low mbia-Kldon road
	Wisso Wires	uri caus and lig	ing ma htning	y powe struck	tran:	eges form	when t	rees a In sev	nd limbs fell on eral instances,		stop	ped up, ar	d road	s washe	d. I	1	s were	dama	ed, ditches
	trees	tlown or	ver by Edger	strong ton, Pl	wind:	s or Count	struck y, Chi	by li llicot	ghtning damaged he, Livingston	St. Louis County	Thur	8-11 pm derstorms	that r	- tawar	rough	+1-0	St. L	0 ruis a	Flash Flood rea Friday night
	Count	y, and I	ndepen Lling	dence,	Jacks Ligh	on Co tning	mty, cause	houses dato	were heavily tal of \$15,000		dump into	ed up to t streams	hree :	nches i	n a ir asemer	ree rts.	-hour Wate	period rs fro	turning roads the River Des
	when	it start	¢d a f	ire on	the r	o loo	r a th	ree-st	ory apartment		Pere Over	s and othe land, and	r stre	ams ove hn. He	rflowe rdest	d t	neir b	nks i	University City, St. Louis County,
Columbia, Boone	9	12:30 am	,	?	,	0	0		Lightning		espe the	cially Uni	versi	y City, out 50	where person	the	risi There	ng Riv	St. Louis County, er Des Peres forced iniversity Square Park were flooded a coat of seum r household pos-
County	Mark overn	Crawford	was k his gr	lled w	hen s	truck home.	by 1i Mark	ghtnin was i	while staying bed inside the		Apar in a	tments and matter of	the minut	oller s es, and	reced	ri ing	nk in i waters	ieman left	ark were flooded a coat of seum
	home	when light completed	htning	entere	d the	hous	e and	struck	him. Mark had		and sess	mud. Seve ions ruine	ral fa	milies remen s	report	ed a	mch o	thei	household pos-
Benton, Camden,	9	7:15 pm	?	?	0	0	4	0.	Severe Thunderstorm		in s	ome areas. apartment	Resd	uers ha	ndwalk	ced la	cross	lifel	ines extended to
Miller, Moniteau, and Morgan Counties	A thu	nderston				lzed	hail a	nd str	ong gusty winds demage to numerous		boat	з.					İ		
, ,	boats	and docl	ks. S	everal o	docks	were	flion	ed ove	r, some on top of ned by John Gruber,	Southern Half of Missouri	26 Thun	5-7 pm ierstorms	? develo	? ped ahe	ad of	0 a co	14 fr	nt in	evere Thunderstorms the afternoon
	a gas Gas l	house wa	s tor	n away :	rom a	a doc	k and er man	landed	across the lake.		nort	heast thro heastward,	ugh so the s	uthwest outh ha	over lf of	the	state, state	AS recei	the storms moved
	befor	e there w	as a	dajor ga	soli	he lo	88. N	merou	s trees and power prmer at the Tan-	[ena tran	formers.	damage In We	bb City	damag Jasp	e wa er (s to to	rees, a la:	power lines, and ge tree crashed
	Tar-A	Resort.	A co	ple of	unoce	cupie	d cabi	ns at	Russ's Resort sus-		prop	on a mobi erty demag	le hou ed by	e which falling	trees	ons!	dered	a tot	d loss. Other in Carl Junetion.
Malden, Dunklin County	li	7:35 am	?	?	0	ا ا	4	0	Wind'		Jasp	er county,	and h	ouses 1	n Roll	a, P	helps	County	r, Festus, Jeffer- erson City, Cole
	High to th	winds in e city of	an ea Mald	rly mora en. Man	ning .	hund	erstor	n infl os wer	icted some damage downed, one		Count Park,	ty, 100 or and some	care	trees w were da	ere ei maged	ther by	downer	d or d	amaged at Memorial
	house	losta	few sh	ingles.	and 1	half	of the	large	sign atop the		the P	invironmer down.	tal Se	nitatio	n Maria	gene	nt Inc	, tra	sfer station were
	Evans	' Big Sta	ar from	pt canop	y, f	lippe	it u	onto	the roof, and through the holes		30	6:45 pm		?		0	4	0	Severe Thunderstorn
	onto	the super	marke	floor.	Win	nds a	iso to	re a 1	D-foot long metal g limbs damaged		aged	cars and	trees,	includ	ing on	e th	at fel	olf-be l on s	ll sized hail dam- house in Malden
	the r	oof of ti d, crushe	he C. :	dashboa	ell :	resid	ence a	nd sha	tered the wind- nood of an auto-	MONTANA	and c	thers tha	t knoc	ked dow	n powe:	r 11:	nes.	ĺ	[.
	mobil	e belong:	ng to	W. R. I	arnh	art.				Fergus	2 Thum	evening	? 	? sil snd	l Death		0 1		Funnel, Hail ctensive damage
										.	to c		les no	rthwest					size was up to
										Carbon	i	afternoor			1	2	,	0	Lightning
														y light					lter under a tree.
		i							'	Central	3.	1 AM	?	? .	0	۱۰			Tornado, flash flood
										·	Two	o four in	ches d	f rain	fell i	n ce	ntral	Monta	hail, rain ma area. A tornado
				[oted trees naive crop			u some	sne	us ne a	ır win	ett. Hail caused
										Cascade	3	4:30 PM	1	300	0	2	5	_5_ Ì	Tornado und a campground.
											y aci	nool bus w	oes de ith 20	stroyed occupa	200 a nts wa	crep s lļ	or ti	nder rom t	nd a campground. he ground.
										Cascade		5:30 PM		?		ا	0		Funnels
									,		Fair	orce pers	onnel	eighted 	two f	unne 	ts not	on of	Great Falls at
										Fallon County		Night	?						Tornado
	1		l	1	1					1	A top	mado was	observ	ec at 4	ranch	25	miles	north	est of Baker.

	1			, ,							Τ_	1.							JULY 1978
		CAL	PATH	E		OF SONS		ATED† IAGE				CAL	РАТН	¥		SONS		ATED [†] IAGE	
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF I	WIDTH OF PAT	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF I	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
MONTANA (convalley	4 A to	4-8 PM			0 les i	0 north	0 rest o	0 f Wolf	Tornado, Funnels Point. Funnels	NEBRASKA (co. Buffalo, Phelps, Kearney, Harlan, and Franklin		ied) 7:30 PM -8:00 PM			0	0	5	3	Damaging Winds
Custer and Garfield	4 Basel or d	Evening ball size	hail 0	ut a si cres of	whea	cros	rley þ	heast and oa	portions destroying ts. Hail was	Counties	Hard When	damaged damaged that the description of the descrip	ntilit was Ke le hom	y line arney : es were	s and area e blo	bui trai wn o	lding ler co	s. ourt vindow	 - -
Cascade	5	1 PM Power obse	?	?	0	0	0	0	Funnel	Platte, Polk, Colfax, and	A ba	thown of the blown	estroy	ed sou	h of	Hil O	dreth 6	5	Damaging Winds
Sanders	A sm	evening all tornad nompson Fa	? o upro lls.	; oted an	o d tw	0 isted	off t	. O ops of	Tornado trees 3 miles west	Butler Counties	fel.	y to seve ed trees	and d	amaged	util	itie	s and	build	rstorms ings.
Custer	Golf hund	reds of wi	ndows	and dar	iled i	auton	to 70	mile s in M	Hail, Wind an hour winds broke iles City. Tornado		lumi home	most extended of Bellicer mill and roots to the second sec	noodw nd ma f dam	here a chine : age and	roof shop.	was Tw	torn b near	off a	
Carter	A to and	rnado dem uprooted	lishe	damob:	le h	ome, th of	iestro Ekala	yedar ka.	aircraft in a hangb	Cuming, Burt, Dodge and Washington Counties	5	8:15 PM -9:00 PM	į	crops	0	0	4	3	Damaging Winds
Central Montana NEBRASKA Box Butte County		Evening destroyed 5:45 PM	ļ	sands o	acr	o es of O	? crops 2		Hail Hail		Sixt dama some	y to seve	lding	s. As	mall i	bar	was	blown	l
-	swat	severel h from 5 les sout	mile							Cuming County		southwes nair. 9:00 PM	l or '	-TRUEK	and 0	Wire:	were	down	Lightning
Lincoln County		5:15 PM	l nches		o meter	0 fel	2 1 10 1	4 iles	Hail	Scottsbluff County	of W	tning set disner. 11:25 PM	fire	to a h	ome		es so	uthwe:	t
Frontier, Hitchcock, Red Willow and	2	h of Nor 7-8 PM			0		4	 5 	Hail and Damaging Winds		Hail	12:30 AM up to 1 ¹ 4 to 5 n	inche	es in d	iame	ter o	 amage	d crop	Damaging Winds
Furnas Counties	froi gust	damaged near Tr ted to 70 ging cam	m.p.	to Cul	berts ing 1	on. rees	Winds and			Kimball County	dama	ped a pat							
Red Willow County	Fun	7:15 PM el cloud cCook.	i	 eporte	0	0 mile	0 s sou	0 heast	Punnel Cloud		dama of B	up to 13 ged wheat ushnell. dings and	crop Hail	near a also d	nd to	12	miles	south	
Lincoln County	3	Late Evening	 		0	0	3	0	Damaging Winds	Keith County	Stro	 2:00 AM ng winds Martin Ba	in thu	nderst	O DIMS	Caus	ed đa	o mage i	Damaging Winds
Keya Paha County	home	ng winds 10 mile 10:45 PM	s sou					.	Damaging Winds	Grant and Arthur Counties	boat 6	le home w s blown a 3:45 AM 	as blo bout a	wn ove ind roo	fs da	indo mage 0	wswe: d. 4	e bro	Damaging Winds
	dama	s gustin ged tree at Nord	s and								Mos	ong winds lity line t of the	s and Camage	turned	over	a m trat	bbile ed at	home. Hyann	
Knox County	A f	10:25 PM	l l ud wa:	repor	0 ted t	0 etwe	0 en Li	0 nday	Funnel Cloud	Cherry County	Fun Wood	2:30 PM el cloud: Lake.		sighte	0 ed 15	nil	0 ≱s sou	!!	Funnel Clouds
Holt County .	4	Santee.	1		0	0	2	0	Lightning	Jefferson and Gage Counties	6	4:45 PM -5:00 PM		100	0	0	6		Tornado
Webster County	wir 5 One	tning st ing at tw 4:05 PM and a ha	home If inc	ds at I h hail	hman. O	0	2) 5 	 Hail		east then sust util	ado touch of Stee southea ained ma lities dar killed.	le Cit t 1½ or da	y and r miles. mage.	Fou Tree	nor r fa s we	theast rmstea re upr	1½ m ds ooted	iles
Hall and Merrick Counties	5 Funt	ing crop 5:10 PM el cloud	 were		o ed ir	0 and	0 arour	0 d	Funnel Clouds	Gage County	6	4:55 PM	ıd was	sight	0 0 be 15s		0 est of	٠,	Funnel Cloud
Hall, Adams, Merrick and Hamilton Counties	Gran 5	5:15 PM -6:05 PM	<u>.</u> 		0	0	δ.	0	Damaging Winds	Gage County	6 Torr	5:00 PM ado down 1, damag	1 3 mil	30 es eas	0 and	0 2 m	4 iles s	3 outh o	Tornado
	knoc A ro Gran buil wind	ls in a the ked down of was paid Island ding in the lows in the was over damaged	trees rtial A x entra e bus rturne	and daly tor oof wal City iness dat K	n off s blo alon	dutpi abp wnoph	litie ildir fa h bro	s. g in ken		Buffalo, Hall, Hamilton, Merrick, York, Adams, Clay and Fillmore Counties	6 Hail	chicken 5:50 PM -7:30 PM caused e caused e ng gusty nch.in d	extensi winds	on thi	o dar	arms O mage damac	along	6 with ng wi	r.
Hall County	5 Ligh	5:20 PM tning se d Island	t fire		0 of or	chur	3 ch in		Lightning	Otoe, Johnson, Nemaha and Pawnee Counties	Blue stor 6 Wind	Hill and age bins 8:00 PM -9:45 PM s to 60 m	from were	Giltne lamaged 	or to	Hend O	4	. Son	Damaging Winds
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PLACE	DATE TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PAT (YARDS)	KILLED	NJURED	PROPERTY	CROPS	CHARACTER OF STORM
NEBRASKA (co	3	<u> </u>	ļ		i				NEBRASKA (co	ntinu	ied)					[
Otoe County	6 8:15 F	i	 eland he	0 avil	v dar	4 naged	1	Lightning	Gage County		10:30 PM	ĺ	25	0	0	5	٥	Tornado
Diam C.	in Syracuse	•			İ					Bear	ado touch rice remo a Motel,	ving	the roo	f fr	om t	he Ho	liday	
Dixon County	6 Evening Strong wind	s topp]	ed tre	0 esan	0 d da		i	Damaging Winds		line	s and dar	aging		rs.		i		
	buildings n	ear New	castle				į Į		Gage and Johnson Counties		10:40 PM		l h hail	0 fe11	i o	4) 3]	Hail and Damaging Winds
Dawson, Buffalo, Hall, Phelps, Adams Clay and Kearney	8 7:30 A		1	0 	0	. 5	7	Hail		Bea	rice are	. St	rong wi	nds	dama	bed a	barn	
Counties	Hail averag	kington	to sou	thea	st of	Clay	Cent	er	Seward County	18	Late Evening			0	0	3	0	Lightning
	causing ext and buildin extensive d	y windo	vs and	dama	ging	roofs	. Mo	s t i			tning kil				 catt	le st	nding	
	Wood River was 3 3/4 i	and Ken	esaw ar	deas.	Lar	gest	hail		Kimball County	1	a tree i 5:10 PM	n rux	al Sewa 	μd. 0	ļ 0	 2	4	 Hail '
Grant County	8 5:00 P	4		0	0	0	2	Hail	ALLEGATI COUNTY	One	inch hail	fell	атопло	!	!	1	i	
	Three quarte	inch dama	hail w	as r	por t	ed at	Ashb		Cheyenne County	mino	t damage. 5:45 PM	1/2	20	0	0	0	0	Tornado
Thayer County	8 6:25 P	1		0	0	0	0	Funnel Cloud			rnado tou Sidney in				y 25	mile	west	
	A funnel clo	oud was	report	ded 6	mile	s s ou	 thwest		Keith County	i	 7:10 PM	i open		0	0	0	0	Funnel Cloud
Jefferson County	8 6:30 P	1		0	0	4	0	Damaging Winds			nnel clou gallala.	d was	obser	ed 2	mil	es so	uth	
:	Winds in the	nderst lines	orms to	70 r	.p.h	. dow	ned to Fairbo	pes pry.	Phelps County	19	Bvening	ļ			0	3	0	Lightning
Loup County	9 2:35 AM	1-	į	0	0	3	5	Hail		Ligh	tning str	uck h	ome in	Bert	rand	dama n a f	ding ire	
	Hail to 3 in breaking win	ches i dows a	diame d vehi	ter i	ell inds	aroun hield	d Tayl	br		in	ditchen.	1 - 1 -						
Garden County	10 Evening			0	٥	0	 3 	Lightning	Lancaster County		1:00 AM man was	i Injure	d in L	0 incol	i	2 en sh	i	Lightning
	Fire starte			bur	nt a	bout :	100 ac	res		str	ck by liq	htnin	g while	l lis				
Nemaha County	11 9:00 4	м		0	0	3	0	Lightning	Johnson County	20	1:30 AM			0	0	4	٥	Lightning
	Lightning s at Johnson		to an	atti	c in	a ho	e I			Fire home	started at Tecur	by li	ghtnin	des	troy	ed a	raile	
Webster County	13 Barly Morning			0	٥	0	5	 Hail 	Sioux and Box Butte Counties	20	8:05 PM -9:50 PM		25	0	 0 	5	4	Tornado
	Hai damage	d crop		nor ti	of	Inava	e to			Torn	ado touci	ed at	inter	als	in a	path	from	•
Butler, Saunders,	south of Re	!	1 •		0	4	7	 Hail		west	iles nor of Allia pen ranci	nce.	Most	f to	uchd	owns t	ere	
Lancaster, Cass, and Otoe Counties	-2:15 F	1					İ				gation sy lliance.		were o	lamag	ed 1	5 mil	s wes	‡
	Hail to 12 from north Lincoln to	æst of the Ne	David braska	City	thro	ugh n . So	brthea	let l	Jefferson County	21	5:00 PM			i	0	4]] 3]	Tornado
	and damage	lbsses some	Hail coofs i	n no	te ca	r wi	hdows	r 1 1		of E	ado touch ndicott u uildings	proot	ing 15	far tree	s an	iles des	south roying	,
Kimball County	and window:	1	praska 	LITY 0	0	0	i 0	 Funnel Cloud	Jefferson County	21	5:10 PM			0	0	1	3	Hail
	A funnel cl Kimball.	.oudwa	s sight	ed 3	mile	s wes	t of				inch hail ing minor			s ea	et o:	Fair	bury	
Franklin and	17 6:30 1			0	0	4	0	Damaging Winds	Johnson and Pawnee Counties		6:00 PM] .		0	0	2	3	Hail and Damaging Winds
Webster Counties	-7:30 1	!	undere		dam						ng winds broke wi					ling a	und 	
	Strong wind bins and an of Wilcox a	nd wes	of Ca	impbe.	9 m	iles Tree	south damage	! !	Greeley County	21	8:00 PM			0	0	0	3	Lightning
Boyd County	was reporte	İ	ed Clou 	₽. 0	0	2	0	Demonina Winda			started piles nea			des	troye	ed ter 	large	
boyd dodney	Sixty m.p.	!	occur	!!	!!	j	U	Damaging Winds	Sherman County		2:20 PM			٥	0	3	5	Hail
Webster County	17 8:30 P	1	20	0	0	4	0	Tornado		brok	and a hal e windows	in t	nall ne Lito	dama hfie	nd ar	rops d Haz	and ard ar	eas.
	Tornado tou 5 miles nor								Dawson and Phelps Counties		4:15 PM	, (1 a	ار بادر	O C	0	5	6	Hail and Damaging Winds
Scottsbluff County	18, 5:45 P	-		0	0	5	6	Damaging Winds and Hail		of C	driven h verton so ped crops	u thea	st thro	ugh	Holda	ege.	Sever	ely
	Winds to 80 storms down damaged bui	ed tree	s, seve	ered p	utilļ	ty li	nes a	hd		A tr	ailer was some tre	blow						
	and Gering off buildin	viere a	lumber	l yandı	d had	roof	s tor	h	Box Butte County	1	6:15 AM			0	0	2	1	Damaging Winds
Arthur County	area. 18 7:00 P	4		0	0	3	0	Damaging Winds		Wind Alli	s gusted ance caus	to 65	m.p.h. nor da	in mage	thund	ersto	rms at	
	Strong wind	in a	thunder	ston	m ble	w the		THUS	McPherson County		9:00 AM			0	٥	3	0	Lightning
	off a trail	l ni	µe sout	n of	Arth	ur.				Fire Tyro	started n.	by li	htning	dam	aged	a caf	e at	

NEW AMPSILES See Beach. The Secretary will be a serious and a second secretary of the secretary of the second se		_		_		Γ								-		NO.	OF	ESTIM	ATEDT	JULY 1978
NEBRASKA (continued)]	CAL	¥TH.	_#]			CAL	PAT	Ę					
Liculation Country Broad Cloted was given a part of the property of the prope	PLACE	DATE	TIME - LOC STANDARD	LENGTH OF P	WIDTH OF PAT	KILLED	INJURED	PROPERTY	CROPS	OF	PLACE	DATE	TIME - LO STANDARD	LENGTH OF 1 (MILES)	WIDTH OF PA (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
Lincoln Grants All 20 A	NEBRASKA (con	tinu	ed)		<u> </u>							ntinu	ned)	i		l			!	
NEW ADMS 100 km a plated 1 mls equipment of moderators 1 mls representation 1 mls r		ļ]	0	0	0	.0	Funnel Cloud	Seneca Lake Area,	27	12:30 Pf	ļ		0	٥١	4		Funnel aloft, wind
NEVADA 1 130 [130] [130		Funn	el cloud	was s	ghted	n mi	le so	uthea	st of		Untario Co.		 Thunders	l torms n	l loved e	ast a	ross	i I Ontar	n Co.	hail, rain
This figure, 2 " or for it is experted. Lie TEAN 25 women. File Figure 1 " or for it is experted. Lie TEAN 35 File Figure 2 " or for it is experted. L	1	Hers	hey.		į į	İ	İ	;	1				crossing	the no	rthern crash	end o	of Sei	heca L boat a	ke. Ka-	i I
LEG 22 unabout passed plane financial to have followed passed plane financial passed plane displayed plane displayed passed plane displayed passed plane displayed plane displayed passed plane displayed passed plane displayed pla		28	1700	ladina	} }- 2" ==)], , ,	one	4 haur.	i I IMinor				shong on Seven hor	wester es wer	n shore e dama	gled by	enec hìg	a Lake h wind	ļ \$.	
Fig. 1 (1995) and the control of the	LAC HECAS	28	ļ	i	-]''' '\ 		4		i i i			coming fi	dom the	escrib Lake.	ed a p	ossi e ha	ble fu il was	also	 -
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NEW HAMPSHIRE State	ELKO	28			caused	minos	dam	3 age.	1	Thunderstorm	Italy Hills, Yates Co	27	!	1	(Ossed :	i ⁰ Morth	erop) ? Ortion	l laf	l Hail
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See Supplier Course of Country and works, and Lightstee consequently served budgets every accounted the Supplier Country Supplier Supplier Country Supplier			Aftan	1		0,	0	4	3	Thunderstorms	NORTH CAROL	 TN: A	at Italy					į		
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unified week specified and heary while damps was cannot to trees Hear Santaness 12 1 2 3 10 pm Hear with a heavy rais, severy high many accompanied thracker alone have been been been been been been been be		thur Rock	derstorms ester. wh	acros	south chtning	torn N	ew Ha ed fi	mpshir res: 1	e. Ha ilford	rdest hit were		Lar	e hail re	ported	in the	Sale	mbur	area	ŀ	
Save Sampton 23 3/30 pm 3 5 1 Trunderwiterus Sing inting times, Newly risk, severe lighting exceptived turners 24 1 pm 4 3 0 0 0 0 4 3 Trunder Tended touched couch down briefly critical as well things a spurally recorded touched couch briefly critical as well things a spurally recorded touched couch briefly critical as well things a spurally recorded touched couch briefly critical as well things a spurally recorded touched couch briefly critical as well things a spurally recorded touched couch briefly critical as well recorded touched couch briefly critical as well recorded touched couch briefly critical as well recorded touched couch briefly critical as well recorded touched couch briefly critical as well recorded touched couch briefly critical as well recorded touched couch briefly critical as well recorded touched couch briefly critical as well recorded touched couch briefly critical as well recorded touched couch briefly critical as well recorded touched couch briefly critical as well recorded touched couch briefly critical as well recorded to the second touched couch briefly critical as well recorded to the second touched couch briefly critical as well recorded touched couch briefly critical as well recorded touched couch briefly critical as well recorded to the second touched couch briefly critical as well recorded to the second touched couch briefly critical as well recorded to the second touched couch briefly critical as well recorded to the second touched to the second touched couch briefly critical as well recorded touched couch briefly critical as well recorded to the second touched couch briefly critical as well recorded to the second touched couch briefly critical as well recorded to the second touched couch briefly critical as well recorded to the second touched couch briefly critical as well recorded to the second touched couched to the second couched to the second couched to the second touched couched to the second couched to the second couched to the second c		wast	outs were	repor	ted and	heav	win	d dama	ge was	caused to trees	Robeson County	2	Afternoo	1		1				Lightning .
Sew Hampton The H	Statewide	}	j			1	3	5	la.	Thunderstorms		Ay	ung man w	as kil	led in	the M	ingno]	ia com	munit	on U.S. 301
provide across the sphate, November 23 in your country at limited and drawness. See Sumpton 23 in your country and an advanced by a provided and the second seek the occasion and the occasion a	,	Hi of	uinds, h	eavy 1	rain, se	†øre	Light	l ning a	i apcompa	nied thunder-	Pamlico Sound	ł	i			1,19.	1	i 		 Waterspoort
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The control of the co	New Hampton	23	1, pm	 *a	100	0	0	14	3	Tornado										
NEW JERSEY NEW MEXICO Clescoe, Lincoln County 1 3 1:30 p. 0 0 0 4 7 Heavy Mais, Flash Flood Clescoe, Lincoln County There to four-inci ratio for localing dark flooded church structupe and soon creatforces again designed while statistic business. Flooding accommendation of the statistic business. Flooding acc		Torn	ado touch	ifa dom	m brief	y cu	tting	a. STW	th thi	ough a sparsely	Onslow County	3rd	4:45 P		į	ĺ	İ		į	Punnel Cloud
NEW JERSEY NEW MEXICO Glemose, Lincoln County There to four-inch rais fa localized are flooded church structure and some confecues and residists but means. Hooding accessionately and accessionately designed the property of the property		more	e than li	nch ir	ı a brie	per per	lod.	Uproc Woman	n nati	e to Arkansas		A f	unnel clou	ud was	sighted	on t	he No	w Riv	, SE	of Jacksonville.
NEW MEXICO Clescoe, Lincoln County These for four-mod rate is localized treat finded church structure and one continues and treat is localized treat finded church structure and one continues and treat is localized treat finded church structure and one continues and treat is localized treat finded church structure and one continues and treat is localized treat finded church structure and one continues and treat is localized treat finded church structure and one continues and treat is localized treat finded church structure. The continues are treated to be be seen. Flooding occurs to the present we still at all one in the continues are treated to be be seen. Flooding occurs to the present we still at all one in the continues are treated to continue and the continues are treated to continue and treated to the present we still at all one in the continues are treated to continue and the continues are treated to continue and treated to the present we still at all one in the continues are treated to continue and treated to the present and treated to continue and treated to co			FPP	ja to	mado.				1			7.	10:50	4						Waterspout ·
NEW MEXICO Clamone, Lincoln County These of four-and rate fa localized area finoled charts structure, and one residences and residence and residence with resident residence of the residence of	NEW JERSEY		1 - 2	NONE	İ E REPOR	RTED	ļ 1		†			Αw	terspout	was si	hted o	fsho	kre. Ι	į		
Crews Field mess Ration Construction The control rate is localized area (Income Country The control rate is localized area (Income Country The control rate is localized area (Income Country The control rate is localized area (Income Country The control rate is localized area (Income Country The control rate is localized area (Income Country A mail throad; was sighted over open country. One hare unborded. Oil ball sized hair reported. Crews Field mess Ration Colfax Country Real across every littled and smothly septiming of the country. One hare unborded. Oil ball sized hair reported. Crews Field mess Ration Colfax Country Real across every littled and smothly septiming of the country. One hare unborded. Oil ball sized hair reported. The control in Inition dollars. Real across every littled and smothly septiming of the value of the country. One hard unborded. Oil ball sized hair reported. The country Real across every littled and smothly septiming of the white walking lader one at the class and smothed one hair provided by a brick was across and income of the country. One hard was a first later on truck. New Son Juan Country New YORK CONTRAL NEW YORK CONTRAL COLDEAL COUNT NEW YORK COLDEAL COUNT NEW YORK COLDEAL COUNT NEW YORK COLDEAL COUNT NEW YORK COLDEAL COUNT NEW YORK COLDEAL COUNT NEW YORK COLDEAL COUNT NEW YORK COLDEAL COUNT NEW YORK COLDEAL COUNT NEW YORK COLDEAL COUNT NEW YORK COLDEAL COUNT NEW YORK COLDEAL COUNT NEW YORK COLDEAL COUNT New YORK COLDEAL COUNT New YORK COLDEAL COUNT New YORK COLDEAL COUNT New YORK COLDEAL COUNT New YORK COLDEAL COUNT New YORK COLDEAL Country New YORK COLDEAL COUNT New YORK COLDEAL COUNT New YORK COLDEAL COUNT New YORK COLDEAL COUNT New YORK COLDEAL Country 10 4:45F , 7 5 0 0 0 4 °C TORNADO New YORK COLDEAL COUNT New YORK COLDEAL COUNT New YORK COLDEAL COUNT New YORK COLDEAL COUNT New YORK COLDEAL COUNT New YORK COLDEAL COUNT New YORK COLDEAL COUNT New YORK COLDEAL COUNT New YORK COLD				1		İ	İ	į			Off Cape Fear	1	İ	į	į	İ	į		İ	Waterspout
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Near Portaine, Soeswelt County See Servicine, Soeswelt County A small tyrinded was aighted over open country. A small tyrinded was aighted over open country. A small tyrinded was aighted over open country. A small tyrinded was aighted over open country. A small tyrinded was aighted over open country. A small tyrinded was aighted over open country. Butlators severely damaged seven airylanes and besolfshed one helicopera. Near Sanostee, Son Juan County Mask killed by lightings ugrils while changing flat tire on truck. Near Sanostee, Son Juan County Mask killed by lightings ugrils while changing flat tire on truck. No tals at the time and established one within the state of the seven airylanes and besolfshed one service within the seven of the seven airylanes and sentence within the country. NEW YORK CONSTAL NEW YORK COLDENIA COUNTY To defend tylings of la bealth. NOWE REPORTED NOW REPORTED NOW WORK COLDENIA To defend tylings of la bealth of the seven was accordanced by match size that, and a five frames. The seven also struck by lightings bealtd the steel bears and whoched one of a belief by sarble size that, and a five frames. The seven also struck by lightings beautiful the steel bears and whoched one of a belief by sarble size that, and the seven of a well-the seven also struck by lightings beautiful the steel bears and whoched one of a well-the seven also struck by lightings beautiful the steel bears and whoched one of a well-the seven also struck by lightings beautiful the steel bears and will be seven one of a well-the will be seven one of a well-the will be seven one of a well-the seven also struck by lightings beautiful the steel bears and whoched one of a well-the seven also struck by lightings beautiful the steel bears and while was a seven of the seven of a well-the seven also struck by lightings by lightings by lightings by lightings by lightings by lightings by lightings by lightings by lightings by lightings by lightings by lightings by lightings by lightings by lightings by ligh					Ì		ļ			!	Onslow County		1	ļ		1	ļ -			1
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Rear Samostee, There is a sum of the country of the properties of the country of		1	i	1	te highw	-	1	İ		<u> </u>	Mecklenburg County	14	7:00 P	ĺ	ļ ·	-	ĺ	6	İ	Thunderstorm
umbofed. Cdif ball sized half reported. Crews Field mear Raton Rear Sanoatee, 10 1:00 p. Rear Sanoatee, 10 1:00 p. Rakitanom severely damaged seven afplames and besolfshed one half-copter. Near Sanoatee, 10 1:00 p. Rightning Two persons were injured when hit by lightning while walkin along Rose Creek Reputain Road pear Pable Rock Mountain. Rowan County Mankilled by lightning sqrike while champing flat tire on truck. No beain at the time and aushnine visible. La Mestilla, Richarrina NEW YORK COMITY NEW YORK CONTAIL NEW YORK CONTAIL NEW YORK COLUMNIA COUNTY 10 4:45F .7 5 0 0 4 *C TORNADO COLUMNIA COUNTY In Budson, Columbia County, a throate acceptanted by arrive bear also struck by lightning. The sand damage to cropp, farm buildings, trose and utility lines. Damage was over a period of 3 to 4 hours ab the thumburstors rowed en outled with the sand authority lines. Damage was over a period of 3 to 4 hours ab the thumburstors rowed en outled with the sand authority lines. Damage was over a period of 3 to 4 hours ab the thumburstors rowed en outled with damage to cropp, trapes, a few wholle in an appeal beam robothwell as a mean between bockwell and outled willings, trose and utility lines. Damage was over a period of 3 to 4 hours ab the thumburstors rowed en outled willings, trose and utility lines. Damage was over a period of 3 to 4 hours ab the thumburstors rowed en outled willings, trose and utility lines. Damage was over a period of 3 to 4 hours ab the thumburstors rowed en outled willings, trose and utility lines. Damage was over a period of 3 to 4 hours ab the thumburstors rowed en outled willings, trose and utility lines. Damage was over a period of 3 to 4 hours ab the thumburstors rowed en outled willings, trose and utility lines. Damage was over a period of 3 to 4 hours ab the thumburstors rowed en outled willings, trose and utility lines. Damage was not and several and several and period lines and period lines and period lines and period lines and period lines and period lines and		5	İ	!		i	i	İ	i	i '						storm	cause	dan	of to	collapse. Damage
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Sentinel Butte (Golden Valley County)	4	2:15 a			0	0	0	0	Wind	Regan (Burleigh County)		10:42 p	 					 	 Funne1
Williston (Williams County)	4	gust to 2:15 a			0	0	5	0	Wind Heavy Rain	(Emmons County)	Win	11:03 p as of 75 m	iph. N		0 e re	0 orte	0	0 -	Wind (
	outd Will	oor movi iston an	é scre	en. He	vy ra	ains i	ausec lackta	stree il Dan	mes and one t flooding in near Williston.			11:23 p ched down	erief1	? y - no	O damag	je.	0	0	Tornado -
30E Williston (Williams County)	į Hidh	3:10 a winds d ers. dam	estroy aced f	ed four	Campi campi	0 i ers, le	°5 overti d dest	rned s	Wind everal other two granaries.	2S Napoleon (Logan County)		11:27 p hut to gol	f ball	size l	0 a1].	0 No	eport	0 s of d	Hail I amage.
Dickinson (Stark County)	4	3:26 a			0	0	0 repor	0	Wind	Munich (Cavalier County)		11:30 p n wind. N	o dama	ge repo	0 rted	0	0	0	Wind
Stanley (Mountrail County)	4	3:45 a			0	0	5	0	Wind heds, the	Tolna (Nelson County)		12:20 a L thed down	? brief	? J y. No	0 dama	0 e re	l 0 orted		 Tornado
Douglas	Cortu	winds dunity Bu 4:22 a							 	15E Langdon (Cavalier County)	•	112:30 a s of 60 m) ph. N	damag	0 e rep	0 prted	0	0	Wind
(Ward County) Westhope (Bottineau County)	4	5:00 a				1			Funnel	Cavalier (Pembina County)		12:30 a s of 60 m	h des	troyed	0 gar	0 age a	4 nd kno		Wind ver trees.
7S Beach (Golden Valley County) į	6:12 p	 		0	0	0	0	Funnels (3)	Jamestown (Stutsman County)		 12:30 a ds of 59 m	ph. N	damag	0 e rep	0 orted		0	Wind
Bowman (Bowman County)	Wih	6:50 p is to 60 3:00 p	imph.	l Nodema 	i	. !			Wind, Hail	Ashley (McIntosh County)		12:40 a le to gol	 F ball	size.	0 No d	l O I Iamage	0 repo		 Haf1
(McKenzie County)	Wind.	gusts to 3:08 p	1 60 mp 7	n and m			-	No d	lamage reported.	Walhalla (Pembina County)	Win				0 er a	0 trail	4 er ho	ļ	Wind ocked over fence
(Stark County)	Coope	rative o mage rep	j bserve	r repor		i	ado mo	!	apidly east.	5N Grand Forks AFB (Grand Forks County)	5	luprooted 12:55 a			0	0	0	0	Funnel, Wind
Glen Ullin (Morton County)	- (3:14 p inch in d	iamete	r. No	0 repor	ts of	0 dama	l	Hail 	5N Verona (LaMoure County)	5	12:55 a] ? 	?	0	0	0	!	 - Tornado
Elgin (Grant County)		3:34 p	į	200 tó 300			.6 f. f1a	!	Tornado proceeded to	1W Sheyenne (Eddy County)	l	ched down	briefl	y. No	damag	e rej 	orted 	!	 Funnel
	move	northeas	t thro	ugh Elg	in ki	lling ter k	five	people Flai	, injuring 35 , the tornado us damage before some skipping,	Valley City (Barnes County)	5 H1a	l 1:00 a h winds kr	ocked	down tr	O ees.	0	 2 	0	Wind
Carson	the	pating s cornado w):14 p	putn o las on	the gro	n. Alund f	or ab	gn th out a O	a hour	s some skipping,	Fargo Area (Cass County)	5	1:05 a			0	0 topp	°5 ed tr	C ees, a	Hail, Wind
(Grant County)	repoi	rted.	 65 m	ph and		į			. No damage	Enderlin (Ransom County)	pow	er. One i	nch ha	il also	repo	rted 0	4		 Wind
Flasher (Morton County)	Larg	9:37 p e marble	i	i !	O o dam	0 j age t	0 eport		Ha11 	(Kansom County) Millarton (Stutsman County)	POW	ds of 70 t er lines. 11:45 a	60 п	ph, top	pled	tree	, bro		lows, and downed
IN Surrey (Ward County)	Torhi	9:40 p ado touci ted 15 of			Ίу.	No de	mage	report	Tornado, Funnel d. Funnel also	55W Flasher (Morton County)	6	4:05 p							Funnel
15SW Lansford (Renville County)	İ	9:45 p							Funnel	12ENE Hazelton (Emmons County) Jamestown	6	5:52 p	 		0	0	5	0	Funnel Heavy Rain
Velva (McHenry County)	Wind	9:50 p s of 60 r rted.	l i tiphani	l hail c 	0 i Inein	0 ch i	0 diam		Hail, Wind No damage 	(Stutsman County)	Hea			1ood1 _, ng				i i	ents, and a
5NW Mandan (Morton County) 5S Bismarck	4	9:53 p 0:14 p	! !	\ ! !		0	0	 ! 0	Funnel Wind	New Rockford (Eddy County)	8 Hig	2:30 p n winds up	rooted	trees.	0	0	.3	0	Wind
(Burleigh County)	Wind	o.14 p s of 60 i 0:15 p	mph. 8.2	No damas	!			! ! o	 Tornado, Funnel	Bowman (Bowman County)	11 Wind	8:25 p s of 75 mp	h. No	damage	o repo	0 rted	0	0	Wind
9WSW Rugby (Pierce County)	Torh	ado spot ado lift	ted 8W ed bef	W of Ri	gby 1	povin	to t	he eas	t at 15 to 25 mph.	Dickinson (Stark County)	11 Wind	9:25 p s of 75 mp	l h blew	roofs	0 off	2 ouses	5 , sha	i	Wind plate glass ns were injured

		OCAL	РАТН	H T		OF SONS		ATED†	CUANTER		,	OCAL	PATH	ATH.	NO. PER		ESTIM DAM	ATED1 AGE	G.,, p
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF !	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
NORTH DAKOT	Ά (α	ontinued	<u> </u>	j	i i		ļ .	1		NORTH DAKOT)						
(Hettinger County)	11	9:33 p		 	0	0	0	0	Wind	St. Thomas (Pembina County)	20	5:41 p							Funnel
	Wind:	of 69 mg 9:40 p	jh. No	damage I	repq 	rted! 0	0	0	Wind	30 NNE Hillsboro (Traill County)	21	1:23 p					! 		Funnel
(Stark County)	}	of 80 mp	h. No	damage	!	rted	Ü			Oriska (Barnes County)	21	3:30 p				 	İ		Funne1
	1 1	10:08 p			0	0	2	0	Wind	Alice (Cass County)	21	4:16 p			 				Funne1
,,,,	i	of 70 m	h knoo	ked out	i i	r 111	es. °5	С	 Wind, Funnel	Fairdale (Walsh County)	24	4:15 p			 				Funnels
(Mercer County)	Wind	10:28 p s of 80 mp	l h dama	l lged or	0 l lover1	urne	l more	than	dozen trafler	Grafton Area	24	5:05 p			. 				Funnels (6)
	Funn	el observe	laged r	any tre ng the	ston	۱. ;		!	h buildings.	(Walsh County) 7N Whitman	24	5:10 p				0	0	5	Funnel, Hail
(McLean County)	. !	11:00 p	70 mp)	destro	i 0 I	0 mob	°5 ile ho	jC mle.da	Wind haged a boat,	(Walsh County)		ut size ha	i il dad	aged so			ł		runner, narr
	down	ed large t	rees,	broke v	i ndov	s, a	nd cau	sed so	he crop damage	Edinburg (Walsh County)	24	5:15 p							Funnel
riscoll (Burleigh County)	1	.11:48 p s of 70 mp	h. No	damage	repo	0 rted	. 0	0	Wind	Crystal	24	5:15 p					İ		 Funnel
Berthold		11:53 p	?	?	0	0	3	ė.	Wind, Tornado	(Pembina County)	24	5:15 p				0	. 0	5	 - Funne1
		ido touche twisted tr		brief	ly.	iigh k	inds	with s	torm broke branches	(Walsh County)	Kail	damaged s	ome ar	ea cro		J	"	,	Hail
SW Minot	1	12:05 a	?	. ?	0	0	5	0	Tornado	Nash (Walch County)	24	5:15 р			_				Funne?
(Ward County)	Torn and	ado touche a greenhou	d dowr	 brief1	iy.	ligh y	rinds	damage	Wind antennas, trees	(Walsh County) Park River	24	5:15 p							Funnels (2)
	12	12:15 a	 	 	0	0	5	0	Wind	(Walsh County)	24	5:17 p	12.0	100	0	 0	•5	C	Tornado
(McHenry County)	High line	wind blew	over	semitra	iler	upre	oted	trees	and damaged power	(Cavalier County)	Torn	ado destro	yed a	new quo	nset	hut,	blew	a roof	off a house,
argo (Cass County)	12	Evening		<u> </u> 	0	0	3	0	Heavy rain		dest	royed a ma royed part	chine of Hi	shed, d ghway 6	estro 6, an	yed Id top	pled p	ine, r	pped out trees nes.
(vass doancy)	Heav	rains ca	used 1	ocal fl	oodi	g.		ļ -		5N Niagra (Grand Forks County)	24	5:20 p	?	?	0	0	0	0	Tornado
lew Leipzig (Grant County)	16	6:00 p	 	 	0	0	4	0	Wind	3N Cavalier	Pilo 24	t reported 7:00 p	i a bri	lef torr	lado 1	louch D	down.	j 5	 Hail
BE Michigan	н1gn 16	7:00 p	k the	r001 01 	ir one		anng O	and da 0	paged others. 	(Pembina County)	Hail	the size	of bas	eballs	j sever	ely	damage	l cropi	ļ
(Nelson County)	Gol		e hail	i i. No d	į į		rted.			St. Thomas (Pembina County)	24	7:20 p	i i		0	0	0	0	Ha 11
SSW Ellendale	16	8:29 p	?	?	0	0	0	0	Tornado			the size	of gol	f balls		,	i	orted	
(Dickey County) /alley City	louci	ed down b 4:20 p	rietly	r. No d	amage	repq	rtea.		 - Funnels (2)	Enderlin (Ransom County)	30 Wind	i 3:45 p i ls of 70 mp	h No	damans	0	0 erted	0 	0	Wind
(Barnes County)				 						ОНІО				, -			i		
BW Gwinner (Sargent County)	17	01.10	 	 	 			 	Funnel	Shelby County		330PM	-	!	ľ				High Wind, Heav Rain, Funnel C
Rugby (Pierce County)	17	8:18 p			0	0	°5	C	Hafl, Wind, Heavy Rain		Heav and	y thunders heavy rain ickory Hil	torms . A f	moved tunnel c	hroug loud	h thi	potte	y with just	damaging winds north of Newpor nd camping trail
									grain fields y stacked hay,		were	upset wit	n four	people	in c	ne o	the	raile	s being injured
	brok	e windows area road	and	damaged	stee	gra	in bin	s. Ru	shing water ran	Darke and Miami Counties	2	542-6PM	3/4	50	0	0	4°	C	Tornado
Beach (Golden Valley County	18	8:40 p			0	0	. 0	0	Wind	,	A sm in r	all tornad ural areas	o skip	ped thr first t	ough ouche	these	ku 2 m. ku 2 m.	ies to les e	uching down mo: ist of Greenvil
		s of 60 mj	h. N	damag	l i	i					in D	arke count hed down a lami count	y dama gain t	ging so n a rur	me fa alar	rm of ea al	ptbuild bout 10	ings. miles	ouching down mos st of Greenvil The tornado west of Xenia
Bowman (Bowman County)	18 Wind	9:20 p s to 85 m	i i dh and	 funna1	I O	dama	0 de rec	0 brted.	Funnel, Wind	Brown County	1n m	rami count 645PM	y. 3/4	35	 	1	4		Tornado
IOS Reeder	18	10:00 p		i i	"`i		,. IU		Funnel		A sm	 all tornad near Nec≃	o toud	hed dow	n in	rura	area:	пеаг	Wahlsburg and ildings and son
(Adams County) South Heart	20	10:55 a	į Į	i .				'	 Funnel	Eulton County	camp 2	ng traile	irs. d	ne camp	er wa	s in	iured.		-
(Stark County) Inderwood	20	11:38 a	į						 	Fulton County	Heav	y rain dur	ing th	is time	caus	ed ex	3° ttensi	re dama	Heavy Rain ge to tomato
(McLean County)			İ	1				i I			and	bean crops 1 lost.	. Est	imates	run a	s hig	h as	80% of	the tomato crop
Beach (Golden Valley County		11:50 a	j J	i !				į Į	Funnels (2)	1	5 4 cm	!!!	2 1/2		0		5	. !	Tornado
12NE Burt (Grant County)	20	12:30 p	 	İ				 	Funnels (2)		pass	all tornad ed over Co Jone to fa	1 umbus	Grove	as a	funne	east 1 clo	of Fort	Jennings and nsiderable dama
Tioga (Williams County)	20	1:12 p							Funnel	Groveport, Franklin County	23	410PM		_	,	0		0	Lightning, High
10NNE Wilton (McLean County)	20	2:04 p							Funnel	·				-	i	İ			Wind
5N Mott	20	2:12 p		'	1				Funne1	1	util	understorm ity lines. han workin	A ba	1t of 1	ightd	downer ing s	a a n truck	mber d and k	f trees and 11ed a 26 year

															·				JULY 1978
		OCAL	PATH	АТН 3)	NO. PERS		ESTIM/ DAM		CHARACTER			LOCAL	F PATH	PATH S)	NO. PER	OF SONS	ESTIM/ DAM		CHARACTER
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PAT (YARDS)	KILLED	INJURED	PROPERTY	CROPS	OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PAT (YARDS)	KILLED	INJURED	PROPERTY	CROPS	OF Storm
OHIO (continued)		i Afternoor		-	0	0	6°	·	High Wind	PENNSYLVANI.	A (c	ontinued)							
	Thun	derstorms	with w	ind gus	ts ov	er 60	mph o	i id co	siderable property A number of	Perry, Juniata Counties	10	3 PM EDT			0	0	 0 	4	Hail
	plan	es were ov			ent S	tate				·	caus	ed consi	derab	le cro	erec p da	the mage	grou with	nd wi	th hail in spots fields com-
Lorain	128 Gust	i 1 AM I V winds ar	l - li wave	! - s slamm	ed a	5 disa	3 : bled bo	0 at in	High Wind to the breakwall	Berks, Lebanon,	lp1e1	ely dest	royed 	•					
·	off	Lorain Har bspitals i	bor.	One man	drow	ned i	ind fi	e oth	ers were treated	North Lancaster Counties	10	3 PM to 4:30 PM EDT			1	4	4	0	Wind,Electrical
OKLAHOMA Near Alva,	1	4:25 p	 	! !	 0	2	3	0	Wind		Wing	i 1 gusts a	ccomp	anyin	thu	inde	stori	ıs dov	ned many trees
Woods County	A co	uple drive	j Jng in Jy high	their o winds	ar 14	mileavy	s sout	h of durin	iva were forced a thunderstorm.		bui	ldings ar	d aut	omobi	les.	Lig	htni	ig sti	rees damaged likes contributed stomers, in part
	They knoc	sought st	elter	beneath	a la	rge o	otton	ood t	ee. A wind gust juring the two		ten:	plinteri at Indi reservi	ng ut antov	n Gap	mili	tar)	res	rvati	hit near a on killing one
Stillwater, Payme County		11:00 p] 		0	1	4	0	Wind	Hunlock Creek, Sweet Valley and	J. m.	3 PM] ! !			8		,	
14,10 50415,									le home in south- s unanchored.	Pikes Creek in Luzerne County	10	to 4 PM ED			0	0	3	0	 Wind
Near Thomas, Custer County	14	6:15 p			0	! !	0	0	Wind			 derstori ded camp:				ree	and	overt	urned a heavy
	meta		s atte	mpting	to se	ek st			ed by flying sheet arn from high	Biglerville,Adams County		4:30 PM to 7:00 PM EDT			0	0	4 '	0	Heavy rain electrical
Woodward, Woodward County	1	10:30 p			0	3	4	0	Wind		Heav	y rain o	aused time	road)	vay f leas	11000 t 8	ing w	ith o ents	ne highway were flooded ck one house
	Wood The	ward. The	three blown	family about 2	occup 00 fe	ants et fr	were i	njure: desti	ile home in t, two seriously. coyed home breaking		alor	g with t also but	he fi	rehous ut a 1	se. trans	Ligh	tning er.	stru	ck one house
		pelvis and ing debris		eenage	son s	uffer 	jeda o	ollap	ed lung from	Mifflin and		8:30 PM	İ	Í !					
Washita County	ì	3:00 p 4:00 p	 		0	0	ļ.	5	Wind, Hail, Heavy Rain	Lycoming Counties		pm EDT	İ		0	İ	1 4		Heavy rain, electrical
	wind inch agri	d, 1/2 ind ds. The he dultural d	h hail avy ra rops p	, and r ins and articul	ainfa hail arly	11 ft did cotto	om 2 a extens on. Sev	nd 1/: ive da cral l	producing 60 mph inches up to 5 mage to the arms and other the high winds.		Heavinch leas stri	y rain wes at Lest one aukes caus	hich wistonob comob ed mi	lasted wn. I ple le nor fi	d abo doadw dft s ilres.	ut I ay f tran	hour 100di ded.	rang ng re Nume	ed up to 3.10 sulted with at rous lightning
Near Grove,	ì	5:45 p			1	1 .	1 !	0	Wind	Collegeville,	15	3 AM to		 	0	0	3	0	Electrical
Mayes County	in a		n porc	h. The	flyin	g gla	es in	ured a	ered several windows women who was	Montgomery County and Bowmansville, Lancaster County		S AM EDT I		 			 		
Oklahoma City, Oklahoma County	26	evening			0	0	5	! 0	Wind			htning st lged buil			d a	jnumt 	er of	fire	s and otherwise
	doid and 17 p	vindow dan lanes at	de dama dage wa diley l	age to t as repor Post Air	rees, ted b	y man were	er lin dy hom damago	es, an	oss Oklahoma City buildings. Roof rs and businesses. the winds. 3 of the	Sunbury to Shamokin,North- umberland County	15	Midnight to 1 AM EDT	Į	 	0	0	4	0	Heavy rain, Electrical
OREGON	p i ac	i ė s were f	l 	over at	ia des	erray:	ea. 			-	floo	ding. Sc	ime ba	sement	ήs ha	id wa	iter 4	to 5	and basement feet deep.
Gilliam County) Wheeler County) Grant County)	7/1 7/2				0	0	5	5	Flash Floods	Eastern Penna.	_	7 PM to	ł	cause	ed mi	nor 0	fires	and 0	damage. Wind,Electrical Heavy Rain
Morrow County)	7	6.00 =									Thu	EDT nderstor	h win	gust	i do	vned	many	tree	s across East-
Malheur County Umatilla County	7/3	6:00 PM	İ	Ì	0	0	4	4	Flash Floods Flash Floods		off	l Trees	fell	on po	wer	line	s, ag	linst	poted or snapped buildings, on aged roofs and
Klamath County	7/25	Evening	İ	-	0	0	3	i I UNK I	 Wind	;	Sid	ing and ster was	espe	ed a p	arki har	ng 1 p hi	bt ph t wit	pto b h tra fs **	poth. West Efic lights bped off or
PACIFIC 7 ml. ENE and 5 ml. V of Naval Air Station Guam		11:20a- 11:43a an 11:56a-					; 	}	Funnel clouds		cav Lig but	ed in an htning s most of ulted in	d the trike lit w	upper caus as min	l lev led n lor.	el o umer The	f the ous f ligh out 2	buil tres tning 5,000	aged roois and poth. West fic lights pred off or ding destroyed, and other damage and wind gusts customers, a problem, roadd Shamokin areas
- January		12:10p							4		Alt way	hough th	e rai g did	nfall occur	was in	gene the	rally Readi	not ng an	a problem, road- d Shamokin areas
	clo	ud but did	not r	each gr	dund .	or oc	ean.	Heavy	n thunderstorm thunderstorm rain ed westward,	PENNSYLVANI	ļ						<u> </u> 		
PENNSYLVANI EASTERN Chester,Montgomery	Á	10 AM		ļ						WESTERN			NO R	PORT	RECE	IVED	i ! ! ;		,
Counties	3	to 6 PM ED]]]	<u> </u>	0	0-	4	0	Heavy Rain	PUERTO RICO			INO R	EPORT	RECE	! IVED !			
	lhoo	itiz hatwa	dn 1∩	IAM an	461	DM a:	nd di	d not	before became] [
	nig Wid	nt. Pre despread der low-1	gipit flood ging	ation ing oc areas.	amou durr I Soi	nts ed on me s	range n roa ream	dways floo	m ∠ to 4 inches. ↓ in fields and ding also oc-				į Į	i I I		[
	of	red. The a home u	e sat	urated donstr	grou	und on t	ause col	d the lapse	n 2 to 4 inches. In fields and ding also oc- basement walls and the house	RHODE ISLAN	D 	-	NONE	REPOR	TED				
1	1.0	7]"``	ĺ	!				1	1	į	İ	ĺ	ļ			

			r								_						Γ—		JULY 1978
		CAL	PATH	 #	NO. PER			ATED† IAGE				CAL	PATH:	Ŧ	NO. PER	OF SONS	ESTIM. DAM		
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF F (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED .	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF P	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER DF STORM
SOUTH CAROLI						.	5 !			SOUTH DAKOT	A (c	ontinued))		;				
Charleston, S.C.	Uno	6 P.M. ficial wi pority. E	nd spe	ed of 70	O MPHI	at \$.C. Po	rts	Severe Thunderstorm High Wind Lightning	Brown and Western Marshall Counties	6	3:45 PM CDT			0	0	4	4 .	High Wind, Hail
	wind	lows, roof is, floode	þ, tre	es, and	util!	ities	. Hea	vy	Lightning	McCook County	6	5:25 PM 1) .		! ! } 0	0	5 1	5	High Wind, Hail
Orangeburg, Cherokee	05	5 20 0 N							liahamina	Minnehaha, Lake and	6	6:40 PM	į		0	0	7	7	High Wind, Hail
S.C.	Ligh Spri	5:30 P.M. Itning kil ngfield a okee and	ed 2 rea.	Mobile	d inji	1 ured damag	3 one in ed in	i	Lightning	Moody Counties Deuel, Southern Grant, Eastern Hamlin and	6	CDT 6:45 PM CDT	 	:	0	0	6	6	Funnel Cloud, Hail High Winds
Jamison, Orangeburg County, S.C.	Sma*	5 P.M. 1 tornado royed she		d damag		· 0 rai	3 mile		Tornado	Northern Brookings Counties Yankton County	6	7:07 PM			0	0	4	3	High Winds, Hail
Neese, Orangeburg Co., S.C.	Sma 1	5:30 P.M. 1 tornado ding near	uproc	ted tre	0 es an	· O	3 aged o	l nne !	Tornado	Lincoln County	6	CDT 7:55 PM CDT			0	0	4	3	High Winds, Hail
SOUTH DAKOT	A 1	 6:25 PM	ļ		0	0	0	0	 	Northern Minnehaha and Moody Counties	6	 7:40 PM CDT	<u> </u>		0	0	 5	5	High Winds, Hail
·		MDT	1 	 		ŀ				Lincoln, Clay & Union	6	8:20 PM			0	0	6	6	High Winds, Hail
Bennett County	Funr 2	el cloud : 7:30 PM	was si	¢hted i	the 0	vici 0	nity o O	ffRose i i o	bud. Tornado	Counties Turner & Lincoln	6	8:30 PM			 ! o		7	7	· Tornado
benness dounty	Torr	CDT	i eporte o dama	d eight ge.					but receded into	Counties	Seve	CDT re thunde	rstorm	devel	pped	l l lover	 easter	n Sout	h Dakota during the understorms redevel
Eastern Bennett and Western Todd Counties		 11:05 PM MDT	ļ		0	0	0	3	Funnel Cloud High Winds, Hail		opi	ig. High w	finds g	usted t	,b nea	ir 80	IMPH ar	d hail	understorms redeven , up to baseball mage to crops, per
									ligh winds and a		Wer	l propert destroye illion do	Ŕd. Cro	p and p	dline Derson	±s. / ntal pi	ll the	build damaq	ings on one farm e was estimated near
Southern Beadle and Northeast Jerauld Counties		el cloud. 5:40 AM CDT	NO 1 	njurtes 	0	crop O	damage 4	was r	High Winds	Southern Lake, Souther Moody, Northeast Mc- Cook & Northern Minne	rn 8	2:55 PM	!		0	0	4	4	Hail
Countries	Seve	ral thund	i erstor	ns move	d thr	ough	the ar	ea pro	ducing winds near	haha Counties		i I	** .	 					1
Southeast Brule, South		İ	ber of	farm b	uildi 0	ngsw O	ere de	stroye 3	d. No injuries. Tornado, Hail	Washabaugh, Bennett, Mellette and Todd Counties	8	5:45 PM CDT	ļ . ļ	. 	0	0	4	4	Hail, High Winds
west Aurora and North- ern Charles Mix Counti	es	CDT						i I I	l High Winds 	Mellette, Todd & Trip Counties	, 8	6:45 PM CDT		 	0	0	3	4	Hail, High Winds
,		daries of							moved along the sionally touching	Eastern Todd & South- ern Tripp Counties	8	7:45 PM CDT) ! !	0	0	3 	4:	Hail, High Winds
Southern Minnehaha and Northern Lincoln Count	4	9:40 PM CDT	 		0	0	5.	. 5	Tornado, Hail High Winds	Brule & Aurora Counti		CDT		 	0	0	4	3	Hail, High Winds
									winds occurred injuries reported.										during the after- were reported.
Sanborn County	4	10:05 PM CDT			0	0	5	 5 	Tornado, Háil High Winds	Southern Harding and Northern Butte Counti	11 s	6 PM, MDT	İ	į Į	0 -	0	0	0	High Wind
	Seve	re thunde	rstor	produc	ed ha	il, h	igh w	nds a	nd a tornado causing		Win	l gusts to	near	50 MPH	 were	repo	ted.	!	
Bon Homme County	ı	11:25 PM	1	Ty and	crop 0	pamag 0	e. no	1111JU 5	jies were reported. Tornado, Hail	Haakon County	11	8:10 PM MDT			0	0	0	0	Tornado
	Sev	CDT 	rstor	nk produ	l l	i ail.i	hiah i	i i winds	High Winds and a tornado result-			rnado was njuries o						lip,	D in open country.
114	ing	in consid	ierable	proper	njey an I	id cre	p dam	aige. N	injuries reported.	Haakon County	11	9:30 PM MDT	ı		0	0	0	0	Tornado
Jerauld, Sanborn, Lake Beadle, Miner, Kings- bury, Brookings, Ham-	, 4	Night Early Morning			0	0	6	6	High Winds, Hail		Tor	i	i en cou	ntry re	l Porte	i d 15	l Imiles	north	of Philip, SD.
lin, Deuel, Moody, Dav- ison, Hanson, McCook, Minnehaha, Turner and Lincoln Counties								ļ		Eastern Washabaugh, Eastern Bennett, Mel- lette & Todd Counties	11	9:30 PM MDT	! 		0	0	0	0	High Wind
	A s	 duall line afterness	deve	oped in	east	cent	ral S	quth D	akota during the		Win	gusts to	l near	 60 MPH 	were	repo	ted.		
	spr	ė ad severe	ei thunc	f erstom	nts. All	II toi	nadoe	g list	iproducing wide- dd above for July evening and early	Bon Homme County	14	2:10 AM CDT		 	0	0	0	0	Funnel Cloud
	dam	ning of Ju age was es les report	sltimate	were a	ssoci 7.5 m	ated illic	with n dol	the sq lars.	evening and early wall line. Total There were no in-	Southern Hand, North- east Buffalo and North west Jerauld Counties	H-	2:30 AM CDT	 		0	0	0	0	Funnel Cloud
Eastern Clay, Southern Lincoln and Northern Union Counties	5	10:30 AM CDT			0	0	4	5	Tornado, Hail High Wind	Southern Bon Homme & Southern Yankton Counties	16	9:30 PM CDT	i ! !		0	2.	6	5	Hail, High Winds
	A s hea	evere thur	derst Major	rm prod damage	uced to cr	a to ops.	nado, No in	hail, juries	 high winds and . reported.	-	A s	vere thun	l dersto	rm move	d eas	t ale	ng th	Misso	uri River. Property
Northern Union and Southern Lincoln Counties	5		İ		0	0	5	 5 	Tornado		acr	ge totale s of crop a tree f	xs resu	Ating i	n doll	ars. 300,	Wind 200 lo	and hai ss. Two	l damaged 11,700 people were injur¢d
Moody, Minnehaha, Lin- coln, Turner, Southern Hutchinson, Yankton, Clay & Union Counties		4-11 PM CDT			0	0	5	.5	High Wind, Hail			 				 			
	Sca and	 ttered sev heavy rai	i Vere ti Vn cau:	i tunderst ting wid	i dorms despre	prodi ad ci	iced a op an	reas o d prop	hail, high wind erty damage.				 		 				

	1	뉳	PATH	<u>.</u>		OF SONS		ATED† IAGE				ΑĽ	Ŧ	I	NO. PERS		ESTIM. DAM	ATED†	
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PA (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
COLUMN DAVION				- ■	₽	ž	E .	5		The state of the s	۵	E M	ت	¥	¥	<u>z</u>	E .	<u> </u>	
SOUTH DAKOTA Southeastern Meade & Northeast Pennington Counties				. 	0	0	0	0	Tornado	TENNESSEE Franklin, Williamson County	2	7:00 p.		į		 	4		Severe thunder- storm
		rnado tou reported		own in	ppen 	range	land a	rea. M	o damage or injuries		Viol abou	ent winds t 15 minu	hit Fr	anklin trees,	and limbs	he w	oret d debri	mage s were	occurred within scattered causing ompany in downtown
Bennett County	16	5:10 PM MDT			0	0	4	4	Hail		Pra	1-14m mag 1	1 mm	ef 114	inh wi	nds	r (noad	away I	the room of a how by falling trees
	Hail	1	he and	i one-qu	arter	s inc	hind	iamete	r, was reported.	Tul lahoma, Coffee County	6	1:15 p.				1			Lightning.
Eastern Bennett, South ern Mellette and Todd Counties	-17	 6 PM MDT 			0	0	6	6	Funnel Cloud, Hail, High Wind		Cent by 1	er was tre	eated i	t the q	enter	:"В Ц	18 pens	ary ar	ry Store at Arnol- ter being injured ath was pushing a
outheastern Mellette. astern Todd & Western	17	6:25 PM MDT		! !	0	0	6	6	High Winds, Hail	Hemphis, Shelby County	10	1:00 p.				 	4		High winds.
ripp Counties Couthern Tripp County	17	7:07 PM MDT		 	0	0	6	6,	High Winds, Hail	Site 15y County	glas	s windows	in a	wraitw	e at	re.	Merch	andise	al large plate was damaged by re blown down.
Southern Tripp County	17	7:35 PM			0	0	5	5	Funnel Cloud, Hail, High Winds	Martin, Waskley County	10	11:30 a.					5		Lightning
Gregory & Western Charles Mix Counties	17	7:50 PM		 	0	0	6	6	High Winds, Hail		Kell	it of lig wood Comp royed the	any Wai	ehous e	Thi	fir	e that	nic bl follo	ast struck the wed completely
Charles Mix & Southern Douglas Counties	17	9:10 PM CDT		i i	0	0	5	5	Tornado, Hail	Clarksville, Montgomery County	13	12:40 p.					4		High winds and heavy rain
Yankton, Clay and Furner Counties	17	10:56 PM CDT			0	0	6	6	High Winds, Hail		buí	dines. 2	L76 մա	thes of	rain;	in a	Bhoru	perio	damage to several d of time flooded warehouse and a
	Hai 80 m	İstones, u MPH. a fun	p to t nel cl	wo inch bud and	njesir Ilato	i diam Irnado	eter, occu	winds rred a:	 and moved eastward. gusting to near s this storm moved timated as one of	Memphis, Shelby County	hous	e under c - 6:10 p.	ons tru	tion w	ere d	estro	yed by	the h	igh winds. High winds and heavy rain
	the Beni	most dest	ructiv y alon	e stori	ns in 20,00	sever 0 acr	al of es an	the we	imated as one of stern counties. 100 bushels of un-	Sherby councy	Roos	damage t	b the	koach P	aper	Compa	ny al	owed b	eavy rain to pou
	har pro was	ested win perty dama estimated	ter wh ge was near	eat. (left i 28 mill	in the lion o	erabi wake ollar	e per of t s. No	sonal his st injur	00 bushels of un- roperty and utility rm. Total damage ies were reported.	Southern portion of	Ano	the ware her steel 5:45 p.	house beame	destroy build	ing u	nder	const	uction	ts within. was leveled. Large hail
Southern Minnehaha, incoln & Northern Union Counties	17	11:35 PM CDT	 		0	0	4	4	High Wind, Hail	Polk County	Powe	·	re do	n in th	is re	rel	 area a	d a 1	arge amount of ha
outhern Custer & Mor- ern Fall River Counties	18	10:15 PM MDT	 	 	0	0	0	0	Tornado	Cosby, Cocke County	1	Afternoon							Wind and large bail
	A to	ornado was damage or	 repor niuri	ted in	the s	outhe	rn po	tion (f the Black Hills.		The rain	and hail	op in some	parta d measuri	f the ng 3/	are 4 of	an in	destro ch in	yed by the wind, diameter.
Southern Haakon County		į -	!	}	0	0	5	0	Funnel Cloud,	Bloumtville, Sullivan County	24	5:30 p.			 	2		!	Lightning re thunderstorm
	A €	! unnel clou	l d was	 reporte	ed nea	r Ph	lip.	Lightn	Ing set fire to a		hit	the area.	Beth	are em	loved	s of	the T	ti-Cit	Airport. They
Western Harding County		er of hay 9:17 PM	i	qisands I I		1 bu		1	High Wind, Hail	Smyrna, Rutherford County	1	Afternoon	İ			İ	4		Righ winds.
, in the second		ו ושאו		l l lem move	ί.	i i			Lightning		Pate	Sanders	Soat Do	ck on I	ercy	Prie	t Lak	. St	damage to the brage docks broke of the facility
	cro Est	ps and bui mated dam	ldings age is	Ligh near o	tning one-qu	set arter	fire mill	on do	ok area destroying mber of hay stacks lars.	TENAC	flo	ating resi	aurent			ig Cir	l cvac		or the lacifity
Southeastern Charles Mix, Southern Douglas, Bon Homme and Yankton	25	7:25 PM			0	0	5	5	High Wind, Hail	TEXAS NORTHERN Fannin and Grayson Counties	2	3:15 p		11	0	0	4	?	Windstorm
Counties Southeastern Charles Mix & Bon Homme	25	7:30 PM CDT			0	0	5	 	Funnel Cloud, Hail High Wind		Coun	avy thundo ty. Stra: s in North hern Lake	ght-li ern Fa	ne wind mnin Co	ped of s gus unty	ver ting and	northe to 50 plew o	m Gra MPH b ver son	yson and Fannin lew out tree ne boats in
Counties Hutchinson & Turner	25	7:45 PM			0	0	5	5	High Wind, Hail	1½ North of Tye, Taylor County	ì	1 .	1-3/4		0	0	5	0	Tornado
Counties Western Meade County	25	CDT 6:42 PM	İ		0	0	?	?	 High Wind, Hail		TK-Ba	rnado toud r-M Mobile twisted an	a Home	Park.	llt al	so d	ging to amaged	vo mob ∣some i	ile homes at the barns, carports,
tinnehaha, Lincoln,	25	MDT Night	 	ļ 1	0	i !	5	i i i 5	High Wind, Hail	Jones and Taylor Counties	3	4:20 p			1, 1	0	5	?	Windstorm, Lightning Strik
Clay & Onion Counties	26	Early AM	 	l de deve				ļ	producing numerous		Stra	ight-line	winds	from th	e sar	e th	unders	torm b	lew off the porch a fire in a hou ttic. Wind up to
Western Butte County	rep hal	orts of wi f inches i 9:45 PM	nd gus n diam	sts to r	nped Near 8 0	O MPI	e sou and ?	nail u	p to tow and one-	Longview, Gregg	00 M	Res north PH was rep 5:10 p	of Abi	lene, h	eavi Fort	y dai Phan	naging tom Hi	the a	north of Abilen
•		i MDT I	 							County	Ì	rved near	Longv:	ew in a	İ				Funnel Aloft
					İ			į	İ	Dallas and Tarrant Counties	2-19				21	53	?	?	Heat Wave
		İ							į		Temp	eratures no an eigl	uring teen	the aft	ernoc	n equ	alled ing Ju	orex	eeded 100 degree nd ending July 19

 -					_				·				-		г				JULY 1971
		CAL	PATH	E	NO. PER	OF SONS		ATED†				CAL	PATH	Ŧ	NO. PER	OF SONS	ESTIM. DAM		
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF I	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF P	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
TEXAS (continue	ed)	<u> </u>	<u> </u>		i					TEXAS (continue	ed)								**
NORTHERN Merkle, Taylor	15	5:45 p			0	3	6	?	Windstorm	Robstown, Nueces Co.	19	1:38 pm]	,				abato.	Funnel cloud
County	Wind	s from a s the roof o	evere of the	 thunder Big Cor	ston	demo	l lishe otel	ldamo damo landa	bile home, blew building in down-	Combes, Willacy Co.	Th1	funnel l	i	prietry	just 	nort		ODS LO	Funnel cloud
•	City	Merkle. Hall and	Winds to nu	caused herous o	roof ther	dama buil	ge to lings	the ro in the	of of the Merkle town. Three		The	funnel mo	ved no	 rthward	near	Comb	es the	n dise	ipated.
		ons were : italizatio		in the	demo	olish	ea mob	ile no:	ne, one requiring	Sabine Pass, Jefferson	1	5:15 am	ļ		 				Funnel Cloud
Southern Smith County		5:45 p	l h	1	0 -	0 dom	5	? 	Windstorm		İ	funnel cl	ł		thwes	twar	over 4	the to	wn of Sabine Pass. Tornado
	in W	hitehouse	The	winds a	lso o	lamag	ed a b	oathou	bber storage sheds se in Willingham diate area	Llano, Llano Co.	26 Thi	i k small to	irnado	touched	i I grou	and o	ver a	ranch 4	miles west of
Correction		ided anter	naes	and tree	s blo	wn d	pwn. 5	?	Windstom		Lla	ho off Higher	ahwav 3	29, It	dest	poyed	la sma	l buil	ding and a barn
Gregg County	Stro	6:00 p dight-line	thund	erstorm	 winds	des	l Froved	la mob	ile home in	Beaumont, Jefferson Co.	27	10:27 am	Į						Funnel cloud
	down	ing Acres power li he area	betw nes an	een Long damage	gview d barn	and is an	Hallsv 1 the	toofs	The winds blew of other buildings	Hitchcock, Galveston	The	funnel cl	1	ved nor	thwar	ra acı	doss ti	ije west 0	side of the city. Tornado
Foard and Baylor		7:45 p			0	0	3	?	Windstorm	Island	1	!	i	i	İ	i	!	i	tal thunderstorm
Counties	Stra	ight-line	l thund	erstorm	wind:	to	55 MPF owel i	were	reported at Seymour, I County. Some		des	the town troyed a curies rest	parage,	tchcock damage	dah	lbng :	and	drt pat Wisted	h it lifted and large trees. No
	powe	r lines w			ή.		İ	ļ	.	Lake Travis, Travis	27	 3:15 pm	!	?	0		7	0	Wind
Jacksboro, Jack County	1	5:20 p 	thumd	arstom	j 0 J Jwind	0 ble	4 Loff	? I stee	Windstorm 	Co.		 understor Lake Tra						ph as	it moved southward
	in J	acksboro,	power	lines	aind s	evera	tree	s down	Ranch sheds by the winds.	Thrall, Williamson	28	2:15 pm	1	30	0	0	4	3	Tornado
TEXAS SOUTHERN										Co.									tryside just west royed two barns
Sabine Lake, Jefferson Co.	ļ	1:50 pm) 	<u> </u>	ا ا		Í	<u> </u>	Funnel clouds		and	uprooted	bevera	l large	tree	×s.		!	"
		Tunnel CI lake.	ouds 1	ormed a	1	ssipa 	tea o	ver the	northern end of	Lower Texas Coast	30 Tro	All day 	1	stal	O Ved Ve	0	j 5 ar the	extre	Wind me lower Texas
Sabine Lake, Orange Co.	5	12:28 pm	;	20	0	O Linet	2 	0 Df th	Waterspout-tornado Rainbow Bridge.		Coa	st and move dy seas da	ved inl	and nor 5 shri	th of	fi Brov	ensvil:	e. Wi	nds and associated ere limited to
	It :	oved slow	rky nor	rthward	and w	ent a	shore	hear t	the bridge where	Nueces and San	30-3	drexposum 1	i	rts. Wide	0	0	5	 6	 Heavy rain, wind
Beaumont, Jefferson	res	lted.		! !		•	į		Funnel cloud	Patricio Counties	Tro	pical Stor	m Amel	l La prod	l liced	to	5 inci	es of	rain and winds of
Co.		i	j Louid 14	i asted br	efly	over	the	prth 1	part of the city.		mov	ed inland	south	of Corp	us Ch	rist	L. Sca	ttered	Bend area as it light property d was due entirely
Lovell Lake, Jefferson	5	1:58 pm	Shore	Narrow	0	٥	3	0	Tornado		per	dent of the	ricultu e crop	ral los damage	ses v	ere wind	largely and a	to co	tton with 10 M45 percent damaged
	Hil	lebrand A	res Si	ubdivisi	lon or	LaBe	g a t	hunder dad we	storm over the st of Lovell Lake.	Portland, San Patricio	1	pain. 1:30 pm	Short	Narrow	, o	0	0	! 0	Tornado
Houston, Harris Co.	Min.	dr damage 3:20 pm	1	red to d	one ho	ione.	3	2	Wind, hail		fro	Portland	High	\$chool.	j Uns	ettle	d weat	her in	 n pastures not far the area was
Harris Co.	At	hundersto	n move	from	just	west	of do	ntown	toward the north-		tim	ed by dyi	ing Tro	pical S	torm	Amel:	ia some	80 mi	les to the NNW at
	hou	t. Sligh de roofs : dificant (in nor	thwest I	ipusto	min. s	Some h	ail wa	pled trees onto s observed but no	Corpus Christi, Nueces Co.	31	1 -			-			į	Funnel clouds
Lake Sabine, Jefferson	'	 10:52 as	ì			ĺ		Ì	Funnel cloud	Corpus Christi,		funnels v 3:15 pm	vere se	en over	the	bld 1	ueces	County	Courthouse.
Co.	Nat	onal Wea	her Si	ervice p ide of t	erson	nel o	bserv	d the	brief funnel cloud	Nueces Co.	1	İ	curred	over t	he 26	ро ь:	j Mocko:	Leopa	rd Street.
Port Acres, Jefferson		11:25 ar	1						Funnel cloud	TEXAS									
Co.		funnel c	lpuds 1	mbved no	or thwa	rd or	yer ma	shlan	ds southeast of	WESTERN Stratford, Sherman County	1	4:20 p	Short	Narrow	0.	0	0	0	Tornado
Humble, Harris Co.	16	9:00 pm	!	!	1	0	İ	 °	Tornado	-544.7									afety Officers
•	Thi to dam	small to have touch	ornado hed gr ted fr	was obs ound bra on the	served iefly short	i and in au Lived	open twist	ued by area er.	a sheriff's deputy near Humble. No		in to	lopen coun ulched down	only	miles s briefly	duths land	pest c	nf Stra dinok	rford. nown d	The tornado amage.
Galveston Island	17	1	i	?	0	0	0		Waterspout .	Post, Garza County	3	ł	İ	Narrow	!	!	2	!	Tornado
		waterspo				Gulf	5 mil	es off	shore from Galveston		of	Post. Ha	ıil mea	suring	5 ir	ches	in dia	heter a	miles northwest nd strong winds st of Post. No
Sabine Lake, Jefferso		11:30 a	į.				į		Funnel clouds		ot	herdamage I			i i	ŀ	j J		
Co.	Sev	eral funn	e s fo	rned ove	er the	lake	duri	ng hea	y thunderstorms.	Seminole, Gaines County	3 A		i 	 sid#a	j0 √115	0 Iniles	0 west	i	Funnel inole by a
Beeville, Bee Co.		12:30 p	i	h-4-6		j 	 	101	Funnel cloud		000		‡rcraf	t while	lin f	flight	t The	sight	ing was over
Banquete, Nueces Co.	1	funnel 1	apted :	prietty	over	ieaci 	urauma 	 A τατ	Funnel cloud	Crosbyton, Crosby	4	7:05 p	!	50	0	0	4	!	Tornado
,	The	funnel m	oved s	lbwly to	oward	the 1	northw	est ne	ar Banquete and	Country	ea	st of Cros	byton.	The t	prnac	p als	o caus	ed ext	home 10 miles ensive damage
	dis	sipated.		-			! !		1		to		and th	e home.	Hic	h wir	ndis and		h rains accompanie
		-	1	-	1		1	1			1	1	į	į		į	[Ì	

					_	,				Γ		Γ			т—		_		JULY 197
		XCAL.	PATH	E		OF SONS		ATED†		,		CAL	PATH	Ŧ		OF SONS		ATED!	
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PATH (YAROS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF P	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
TEXAS (continue	ed)		! 					j i		VERMONT Chittenden County	16	 3:30P			1	2	2	0	THUNDERSTORM
Muleshoe, Bailey County	5	6:30 p) 		0	0	?	?	Hailstorm	January State,	Ligi	tning str			plkin	g fro	m a 80	ccer f	ield, killing one
	to rai	the south ins of up e minor f	and e o 2.5 Loodin	ast of inches	just	nce. sout	The to	ailsto east c	ter fell just om also brought if the town. to the hail		12 guf	rear old g	irl wa trical	s also burns.	struc	k by	11ght:	ing ir	Burlington. A Hyde Park and were also reported
Lake Meredith/Borger,	6 6	e not kno 6:00 a	Mu. I		10	0	3	0	Windstorm	VIRGINIA	1-3	! 			0	0	3	0	Rain
Hutchinson County	Wir	ds gustin	j gitoa	n estim	ted	60 to	80 mi	les an	hour caused	Patrick County	Rain	totaled r L park dan	early	 	dur dur	ing	he pe	iod.	hree bridges in
	Hut	chinson O	bunty.	Street	اونا 🕽	hts w	ere do	wn in	of southwest the Borger pf the city.	Henry County	2	10:30 p	l l	,	0	0	3	0	Rain, Lightning,
Vega, Oldham County	6	8:07 p			0	0	.3	0	Windstorm		Over	 two inche	s of r	ain rep	orte	in	 ertin	ville	Wind area, and this
	Str	ong strai Vega. Th	ght-li e spee	ne winds d of the	dam win	aged lis	a grai not kr	helev bwn an	ator southeast ino further		comb	Ined with	lightn	ing and	i wind	to	isrup	power	to 2,500 homes. ed on some roads.
Amarillo, Randall County		ages were 8:25 p			0	0	?	?	Hail, Windstorm	South Central		Late Evening			0	0	4	!	Rain, Wind
Councy	Hai	 1 measuri	ng as	i large as	 1.7	ind	hes in	diame	ter fell in		brid toba	ge was was	ned ou rn erc	t near ps also	Brook heav	neal ily	Camp	ell Co	some sections. A unty. Smell grains, in in the area.
	por hea	tions of vy rain a cerning d	wester nd str	n Amari ong win	110.	The !	hail w	as acc	propanied by		Loca infl	lly high w	tinds d	aused a erty da	ome t mage,	rees in	to be	snappe inity	d off and also of Danville.
Darrouzett, Lipscomb County	7	5:05 p	l 		0	0.	0	0	Windstorm	Charlottsville, Albemarle County	8 Char	 4:15 p ottsville	home	had sec	ond f	0 loor	4 atti	and	Lightning, Wind toof destroyed by
		i ds gustin the Polic							vere reported		fire	sparked t	y ligh	tning s	trike	. At	Monti	ello a	everal large trees ferson's time.
Stegall, Bailey		icated.		į	į	0	! ! ! 0	į	 	North Central	10	4:00 p- 5:00 p			0	0	ļ 4 ļ	l !	Hail, Lightning, Wind
County	, ,		İ	ļ	ļ	 	 	 			size	d hail ruí	ned so	ybeans,	corr	cro	s and	garde	passage. Marble- s in sections of nty, wind pushed
	2 n	iles sout							pen country ported.		hay dama	barn 12 fe ged severs	et off 1 home	its fo	undat utomo	ion, bile:	near (pal. N Catlet	ind-downed branches t. A Warrenton
Stratford, Sherman County	18 -	7:00 p			D	0	j 0 	0	Windstorm 		Oran what	ge County power com	report	ed rath	er wi	desp:	dead p	wer or	by lightning strike tages caused by e electrical storm
		ils gustin Lhe Sheri							were reported adicated.	Pittsylvania County.	1n s 24	7:30 p			0	0	4	4	Hail, Wind
Sundown, Hockley County	22	3:30 p			0	0	0	•	Hailstorm		from	hall. In	additi	bn. str	ong v	dinds	lovert	irned t	extensive damage wo mobile homes,
	dan	l measuri mage to cr companied	dps8	miles s	outhe	ast o	f Sund	bwn.	caused minor The hail was		took	roofs off reported	two b	arns ar	di des	troy	éda\$,000 :	hed, Some damage
Lorenzo, Crosby County			., 			10			Furnel	Norfolk	25- 26	<u> </u>	! !		0	0	0	0	 Rain
	Lo	short-live menzo. Th mage.	difunr defunr i	melwas Melwas	dbser Visib	ted 2 Le on	miles ly br	north	west of nd caused no		with	an unoffi	bial 2	4-hour	total	of	9.50 i	ches.	f northern Norfolk Nearby Old Domin-
Tahoka, Lynn County		7:30 p			0	0	4	5	 Hailstorm		and spot	ψηινετείτη midnight α \$.	measu f the	red nes 25th. S	priy f Spane f	lood	inches ing oc	of resurred	n between 7:30FM mainly in low
	nor	thern Lyn	n Cour	ity caus	o∮d da:	trage	bver a	an exte	r Wilson in hsive area of inches in	Culpeper County	31	Early Morning	·		0	٥	14	0	Wind, Lightning
	dia	theter and other wi	ijcause ndows.	x i \$10,0 Over	00 da 12,00	nhage	to cor	presse	s, plate glass sustained		and:	coved back	sever	al feet	from	its	found	tion.	d was then lifted Power was inter-
Finney, King County	dan 26	pages esti 8:00 p	mated	at \$75,	000.	0	i ! ! 0	5	 	James City County	rupt 31	2:30 a	or cu	μpeper,	alon	g wi	h some	!	lightning damage.
	A 1	 arge hail			porth	of F	inney	and be	gan moving	. [ľ		ailer h occu	bourt i	Į	1	ļ	l	One trailer was tressdamage was
	for	approxim	ately	15 minut	tes i	nian:	area 1	tom 1	small hail fell mile north of e damage area		est1	mated at \$ damage es	B,000.	Anoth	er ne	arby	traile	r had	its roof ripped off
	in	approxim diameter	dtely whith 1	4 miles 14 inch	I Th	e hai rain	l was being	from .	25 to .5 inches ted. In all,	Dlen Wilton (nr), Botetourt County	31	4:00 p		į	٥	0	4	1	 Wind, Hail
	of	ne 5,500 a	es. N	of cotton	d wen	e dam	aged v	ath to	tal destruction Total damage	, 1	part \$25,	e barn hed g landing 900. Hail dity.	side more t also d	pushed han one id near	in en guar \$50,	ter 1 000 d	mpst ha mile av ikmage	lf of ay - d to two	roof taken off with hmage estimated at corn crops in the
Alpine, Brewster County	31	1:45 p			0	0	0	0	Funnel	Fauquier County	31	Night	 	 	0	٥	3	4	Wind, Hail, Rain, Lightning
	dri	funnel was ifting slo row but r	wly to	ward the	sou	theas	ţ. Tr	xe funn	of Alpine el was very		Man Calv	y trees bl grton, and	own do The P	vn and eins a	catt reas	ered ps w	i flamage ihds bl	repor	ted in Midland, e roofs loose on ling damage to one
IPTAU	ret	armed to	the cl	dud befo	re i	rea	ched t	ne tow	T *- 		buil home down	Around 1	took de perce	pwn fen ent of l	¢es. ¢orn l	Some ¢rop (minor in the	lights count	ing damage to one also knocked
UTAH			i NONE	REPOR					1			<u> </u> 		 					
									 	VIRGIN ISLAN	DS		NO R	EPORT I	RECE	IVEC			
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PLACE WISHINGTON WISHINGTON WASHINGTON WASHINGTON I TO THE PROPERTY AND A STATE OF THE PROPERTY AND A STATE O		Π		Ī.		NO	. OF	ESTIL	MTED†					ī		N	. OF	ESTIM	ATED1	JULY 1978
MASSIMOTON VALUE CORREST STORM WEST VICTOR WEST VICTO			OCAL	PAT	H H								OCAL	PATH	H.					
Pales Pari	PLACE	DATE	TIME - LO	188	WIDTH OF P. (YARDS)	XILLED	NJURED	PROPERTY	CROPS	OF	PLACE	DATE	TIME - LO STANDARD	LENGTH OF (MILES)	WIDTH OF P. (YARDS)	KILLED	INJURED	PROPERTY	CROPS	· OF
State of the control of the deliand and local finding in the control of the contr	Yakima, Grant, Adams, Okanogan, Franklin, Spokane	1 He	avy showe	ers an	l l d hail	occ	urre	d in	l Inany	showers parts of the		1	8:02 p	1/2	100	0	0	?	?	Tornadoes One
President Address of the Control of Control	Lincoln Counties	Co He: ma: cu	lumbia Ba avy rains ny areas. lverts co	sin. caus Som	Summe ed soi e Coun	r fa 1 er ty r	llow osic oads	fiel n and were	ds we loca dama	re hard hit. 1 flooding in ged and many	,	Virg trai	qua in Ve lers were	rnon C destr	punty t byed as	he e we1	vening I as i	of Ju am bu	ily 1. ilding	round near Several
devide to other chorts over the governor on a SIG Stude in a live to interfer on the process of the state of the process of the process of the state of the process of the state of the process of the state of the process of the state of the process of the process of the process of the state of the process	Counties; SE of	A -	j tbrnado h	l lit tw	o tall	ВРА	tra	nsmis	sion	towers. In	La Crosse Co.	5	5:30 p	-	-	0	0	?	!	 Hail
seed 100 mgs. Some South Sections where do included and success and souther sections and success and souther sections and success and souther sections and success and souther sections and success an		Ki	wn six ot Lovolt li	her t	owers.	Se Low	ven er M	steel onume	towe	rs on a 500 Dam on the Snake			Late aft	12		i	i !	!	7	Tornado Heavy rain & flooding
hour frem garage on chasel cell lar larged, and east of strong courses of the control of the con		ne: Coi Ha	aar 100 mp uild have toon had	h. S added	ome fo	otin e da	gs w	ere o . So	n irr me fa	igated land, and rm buildings near	,	crop	s and sev	eral fl Arcadil	arm bui	lding	s, ar	ound 5	1:00 pr	, 6 miles
Odessa to the Adans County in Control of 1. Severy in	Lincoln County	He Co	avy thund unty. Ra	infal	l esti	mate	s of	in so	uthea one	showers stern Lincoln (1) inch in one		!		7 inc ening, eporte	nes of induce ily was	l		1	ı	! [
Suitar Country Pend Oreillo Country Pend Oreillo The world of Meyord had the root londing occurred in purpose of the purpo	Whitman.Garfield	Od to	dssa to i	he Ad	lams Co	unty	lir	e. i	leavy	damage occurred	St. Croix Co.	Hai1	ranging			 2-1/	į 12 inc	hes wa	i Is repo	!
Dead goes like County A home week of Newport had the not bloom off by a compand which layted a few aniques. Xing, Pierre. The ration Counties A sirge of instable air covered most of fisshington Scale. The landlation and parts of a good fever proposed to be scale treed over several ailes. Xing, Pierre. The ration Counties A sirge of instable air covered most of fisshington Scale. The poutbartly flow brighting is the action and evening. February and developed in the afternoon and evening. February and developed in the afternoon and evening. February and developed in the afternoon and evening. February and developed in the afternoon and evening. February and developed in the afternoon and evening. February and developed in the afternoon and evening. February and developed in the afternoon and evening. February and developed in the afternoon and evening. February and developed in the afternoon and evening. February and developed in the afternoon and evening. February and developed in the afternoon and evening. February and developed in the afternoon and evening. February and developed in the afternoon and evening. February and developed in the afternoon and evening. February and developed in the afternoon and evening. February and developed in the afternoon and evening. February and developed in the afternoon and evening. February and developed in the afternoon and evening and evening. February and developed in the afternoon and evening and evening. February and developed in the afternoon and evening a	Columbia, Walla	dar Ra: por	maged by infall es rted near	heavy timat Dayt	showe ed of	rs i over	n so one	y roa uthea inch	as we stern in o	Washington. ne hour was re-		12 60 m	10:40 p ph winds	- were r	-	0	0	?	?	i
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A surge of instable air covered most of Mashington State. The southerly flow brought the Heaviest lightstate of the State. The southerly flow brought the Heaviest lightstate of the State. The southerly flow brought the Heaviest lightstate of the State	King, Pierce,	pa:	rts of a veral mil 8AM -	root	were n	epon	ted	to be	scat		Vilas		Early	ere thi	indersti -	!	! !]		Severe thunder-
WEST VIRGINIA Roanoke, Levis Co. 8 3:15PM ? ? 0 0 0 0 Punnel Cloud Punnel cloud reported by state police near Roanoke moving east. Pinegrove, Bartison Co. Tornado spotted by public at Pinegrove, ust west of Clarksburg. Ripley, Jackson Co 10 4:10PM ? ? 0 0 0 0 Punnel Cloud Punnel cloud reported by public at Pinegrove, ust west of Clarksburg. Ripley, Jackson Co 10 4:10PM ? ? 0 0 0 0 Punnel Cloud Punnel cloud reported by public at Pinegrove, ust west of Clarksburg. Ripley, Jackson Co 10 4:10PM ? ? 0 0 0 0 Punnel Cloud Punnel cloud reported by public at Pinegrove, ust west of Clarksburg. Ripley, Jackson Co 10 4:10PM ? ? 0 0 0 0 Punnel Cloud Punnel cloud reported by public at Pinegrove, ust west of Clarksburg. Ripley, Jackson Co 10 4:10PM ? ? 0 0 0 0 Punnel Cloud Punnel cloud reported by public at Pinegrove, ust west of Clarksburg. Ripley, Jackson Co 10 4:10PM ? ? 0 0 0 0 Punnel Cloud Punnel cloud reported by public at Pinegrove, ust west of Clarksburg. Ripley, Jackson Co 10 4:10PM ? ? 0 0 0 0 Punnel Cloud Punnel cloud reported by public at Pinegrove, ust west of Clarksburg. Ripley, Jackson Co 10 4:10PM ? ? 0 0 0 0 Punnel Cloud Punnel cloud reported by public at Pinegrove, ust west of Clarksburg. Ripley, Jackson Co 10 4:10PM ? ? 0 0 0 0 Punnel Cloud Punnel cloud reported by public at Pinegrove, ust west of Clarksburg. Racine Co. Racine Co. Punnel reported by public at Pinegrove, ust west of Clarksburg. Ripley Jackson Control Wilderstorm Co. Funnel reported by public at Pinegrove, ust west of Clarksburg. Ripley Jackson Control Wilderstorm Co. Racine Co. Punnel cloud reported by public at Pinegrove, ust west of Clarksburg. Ripley Jackson Control Wilderstorm Co. Racine Co. Punnel cloud Vision Riple Funnel Cloud Vision Riple Funnel Cloud Vision Riple Vision	Thurston Counties	Sta nii sta	surge of ite. The ng activi	sout ty to	herly weste orning	flow rn W	vere bro ashi d re	d mos ught ngton devel	the h	Washington eaviest light- understorms in the afternoon		Jund flyi also	tion and (ng glass) destroyed 10:29 a	conovei when a 1 in P	in Vil tree fo elps.	las C ell c i	punty n hen	. A fi	helps . A b ¦ ?	woman was cut by bathouse was Wind
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Pinegrove, 10 2:25PM ? ? 0 0 1 0 Tornado Barrison Co. Ripley, Jackson Co 10 4:10PM ? ? 0 0 0 0 Funnel Cloud Excelsior, Upshur Co. Funnel cloud reported by public. Excelsior, Upshur Co. Funnel spotted by state police Hurricane, Putnam Co. Funnel spotted by state police Hurricane, Putnam Co. A 59-year old woman was killed four miles east of fluricane as shelfet her ear to walk to her house. Lighting struckla tree next to her and she was killed instantly. Southern half of State String thurderstorms meved across central and southern Wy during the early morning hours with numerous reports of throoted trees, downed power lines and local urban flooding. Bring thurderstorms meved across central and southern Wy during the early morning hours with numerous reports of throoted trees, downed power lines and local urban flooding. Bring thurderstorms meved across central and southern Wy during the early morning hours with numerous reports of throoted trees, downed power lines and local urban flooding. Bring thurderstorms meved across central and southern Wy during the early morning hours with numerous reports of throoted trees, downed power lines and local urban flooding. Bring thurderstorms meved across central and southern Wy during the early morning hours with numerous reports of throoted trees, downed power lines and local urban flooding. Bring afternoon contracting the public at Pinegrove, ust west of Carkernoon and such ern with a several autosouthern with during the early morning hours with numerous reports of throoted trees, downed power lines and local urban flooding. Bring afternoon contracting the subscience local during a during the early morning hours with numerous reports of throof of an apartment bulking was also reportedly blown off. Bring afternoon thunderstorms winds downed trees and power lines in Racine Co. Bring afternoon to a police lead of the lines and local urban flooding. Bring afternoon to a police lead of the lines and local urban flooding. Bring afternoon to a police for thin	WEST VIRGINI Roanoke, Lewis Co.	A.					į					۱ ۱	- !	: :	nd tree		i !	?	. 7	Wind
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WV during the early morning hours with numerous reports of uprooted trees, downed bower lines and local urban flooding. Washburn the 26th. The roof of an apartment building the 26th of an apartment building the 26th of an apartment building the 26th. The roof of an apartment building	Southern half of	kil	ed instance		a rise	-	į		į		Kenosha Co.	of	armingtoh I	durij:	g the je i	arly	morni	ing ho	urs of	the 26th.
a severe thunderstorm downed trees and demolished a trailor		WV of	during the prooted	ie ear	ly mor	ning	hou	ırs wi	th no	merous reports	Washhurn	the was	26th. Th also repp	e roof rtedly	of and blown	apar off	tment	bu11¢	ing	
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		OCA!	PATH	H.		SONS		AGE	CHARACTER			OCA1	РАТН	¥.		SONS		AGE	GURISTER
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PAT (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
WYOMING	۱ ۵	1:30 p.	5	200	0	1	5	3	Tornado	WYOMING (con-			,	200	0	0	5	1	Tornado
ing norm country	A to	rnado upro	oted r	umerous	tree	s in	over 8	OO acr	es of forest near	absnet county	l	6:30 p. ado touche	d down			- 1			Torrington,
	Grey dest	rbull as it ruction.	trave One wo	led nor man was	theas inju	tward red	in a naca	5 mile	path of s it was rolled		dest imme	roying one diate area	trail. A 4	er home 00-gall	, and on ga	dama	iging d	ther e	equipment in the sed around," and
		by winds.						1	were also noted.		a tr	actor move	d some	30 yar	ds.				
ashakie County	4 Tent	1:30 p.	10	400	0 a he	0	5 Shunda		Hail was dumped near	Laramie County	31 Two	l '		3000 oms di	0 d cor	0 side	7 rable d		Hail to portions of
	Orci	hard Bench	doing	extensi	ve da	mage	to cr	ops of	beans, beets les. One resident		Chey	enne. Sev enne after	eral f the t	unnel c hunders	louds	were	repoi	tably throu	seen south of th town. Hail up
	said	that it grass and	it so	hard "		we t	vatche	i some	hailstones hit		to 3 home	inches in , propert	diame	ter dîd	an e	stim	ited \$9	mill:	on damages to ess of 50 mph wer
Converse and northern Platte Counties	و ا	1:30 p.	15	2500	0			5	Hail	Sweetwater County	reco 31	rded. 7:45 p.	,	100	0	٥	a	0	Tornado
riatte countres	6031		'			bv a	thund		n between Douglas	Sweetwater County		· .	seeir		•	1	•		or almost two
	and dama	Glendo in age to cr	a stor	m path well a	near1	ly tw	nile:	wide	at times. Major ildings, mobile		minu Sprí	tes doing ngs. Brus	no dan h and	age in vegetat	the r	emot	area	south	vest of Rock ne area and a
W. L	1	s, and vel								LOUISIANA	roar	ing type s	ound w	as evic	ent.				
Natrona County	9	Early Morning	5	300	0	0	4	2	Hail	Lafourche Parish	6 Ams	afternoon n catchin	crab	along	1 the t	0 each	0 at Fo	0 prehon	Lightning
	"go1	f ball si:	ed and	larger	hail	" in			morning dropped Casper. Vehicle		was	struck and							
Dank Cau-t-	and	house dami	ges w	re repo		1	,			Lafourche Parish	7 Pil c	9:30AM t reported	wate:	 spout 	outh	of L	eevill		Waterspout
Park County	11 4 fr	3:20 p.	0.4	200	hed a	0	4 Itar	1	Tornado outhwest of	Lake Pontchartrain	10 Spot	5:47AM	last n	Lakef	ont i	Airpo	rt		Waterspout
	Powe	l destro	ing a	barn ar	d oth	er pi	opert kwise	. Rai	cher said that ie tornado from	Pointe Coupee Parish	10	 afternoon		!	0	0	4	0	Severe thunders
	the	apparent	look a	the da	mage.						and	winds fro	lew Ro	ids. Ra	nas d	wned to	power	lines ches	
Big Horn County	16	11 a.			0	1	1		Lightning	Lake Pontchartrain	caus 14	ed some f	oodin 	8 • 					Waterspout
	sto	nh at Barry	's La	ding ir	the	Big b	lorn C	nyon 1	ng from a thunder- lational Recreation ward his car a	pare Fontchartrain	Two	funnel cl	uds w	re rep	rted th o	over F Lak	the l efront	ake. Airpo	-
	[bol:	t of light	tina h	it him r	lear 1	the si	hou1de	rs and	exited through	Caddo Parísh	14	7:25PM]	0	0	3	0	Severe thunder
•	him	and burne dition" an	hole:	in his	soci reco	ks." ver fi	He wa 111y.	repo	lothes off of rted in "good		High	 winds ca hreveport	sed d	amage t	op pow	er li	hes an	d roof	storm B brred.
Laramie County	19	3 p.	32	6000	0	0	4	4	Hail	DeSota Parish	15	1	3/4	120001 50	0	0	4	i	Tornado
,									er hail in the everal homes and		Fri	rson was	hit by	a torn	do t	hat t	visted	trees	and
	alsı	damaging nearly 32	crops	in its	path	Arı	a of	damage	was 4 miles wide		was	r lines a scattered its foun	for a	quarte	of	one mil	e. A h	onse a Nerst	barn⊕s destroyed as shifted
Natrona County	20	2 p.	30	1200	0	0	5	4	Hail, winds, and funnel clouds	Tangipahos Parish	l	105 TOUR 6:40PM			0	0	4	0	 Severe thunder-
	Sevi	ere thunde	rstorm	s with o	001 f -1	ball:	sîzed	hail a	nd wind gusts in		Pol	i dce report	ed roo	blown	off	house	about	ten	storm
	exc	ess of 66 m dows, moto	nph di home	consid	erab ercia	le dar I pow	nage i er equ	n Casp ipment	er. Damage to , mobile homes,			ds north o		ona. Po 	wer w	as kn	рскеа	out in	! !
	veg	etation wa	also						ge to crops and e reportedly seen	Cameron Parish	19	9:45AM		İ	į	İ			Waterspout
Natrona County	20	the area a 5:30 p.	20	900	0	0	4	2	Hail		10:	riff repor 10 AM civi	l defe	hse off	ice r	ver J eport	ohnsor ed a s	's Bay aters	ou and at put or tornado
.:	1	.]				mped .	ıdditi		1/2-inch sized	Coastal Waters	two	miles nor 1100AM	th of	Cameron	i I	ļ	! i	i !	 Waterspouts
		l east of ps was rep		Damag	ge to	hous	es, tr	àilers	, vehicles and		Air	rspouts wo prt and a dssippi R	so tw	ported d miles	from	Sout	ntchar hwest	train Pass o	hear Lakefront the
Natrona County	20	5:40 p.	1	100	0	1	4	1	Tornado		20	1:30 PM	 			İ	 		 Waterspouts
	doi	ng conside	able	damage :	to bu	ldin	gs and	equip	ng district ment as well as		Two	waterspou	s in	East Co	te Bla	nche	Bay		
	a d int	ozen cars. o his eye.	One Obse	nan was rvers s	inju aid t	nedw he "w	hen br inds f	oken g Irst c	lass was blown ame from the	Coastal Waters	Wate	10:15AM rspouts r Grand Is		in We	l spt Co	 e B1	anche	l Bay an	Waterspouts One
	sor	thwest, st ta gasped everythin	and qu	tand	then	whip	ped in	from	the other direction	Lake Pontchartrain	21	10:55 AM	į			į		ļ	Waterspout
Goshen County		7:30 p.	20	800	0		4	4	Hail Hail		Repo	rted thre		d north	!	!	i		ort.
	Eve	ning thund	erstor	nes dump	ed go	f-ba	ll siz	ed hai	on a portion of	Concordia Parish	i	2:30 PM	ļ	l Indoes	0	0	j .4 I	derah	Severe thunder- storm and wind
Albany County	as	theastern well as cr [1:45 p.	dps in	the ar	ea. 0		!	and h	omes were damaged Tornado		dam	age on bot Ller was t	side rned	s of La upside	ke St down	Joh na an	h. One Bauto	house A bo	j ≱t
Albany County	A n	ilot repor	ted se	eing a '	"smal	l whi	tish c	lored	funnel cloud		doci	was over	turne	d. Roof	e of	house	s and	þarns	vere re limbs.
	5 m rep	iles north ortably to	est o	f Laram the gro	ie mo	ing ery b	astwa iefly	rd." with	The funnel cloud no damage incurred.			mber of o						h nort	hern and
Niobrara County		6 p.	5	700	0	0	5	2	Tornado	Coastal Waters	1	Ral Louis	i 	- 	ATUG	uama 	ļ	ļ !	Waterspout
	did	considera	tile da:	mage to	the :	llance	lCreek	larea.	and severe winds Damage included	Source Rosers	Repo	rted by C	i	ard ne	ar So	thwe	t Pas	. I.	-
	one	steel bui	lding,	severa	l hou:	ses a	nd tra	lers,	campers, private	Plaquemines Parish	Pile	11:00 AM	water	spout f	lve m	lles	outh	j pf	Waterspout
							ļ			Lake Pontchartrain	Del:	6:10 PM	į				į		Waterspout
Į		1	İ	İ		1	!	İ	!	Duke Tolicendicidin		rted over		end of	lake.			ĺ	

		JAL.	РАТН	E		OF SONS	ESTIM. DAM	ATED†				CAL	РАТН	Ē	NO. PER	OF SONS	ESTIMATED [†] DAMAGE		augusta.	
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF (MILES)		KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	
LATE REPOR			JUNE	1978						TS, CORRECTION LATE REPORT IOWA (continued)	RTS)	} 	i J JUNI	LET:	 	\ 				
4NE Ft. Madison, Lee County	pat bof	are lift	ina a	ng goi	ha i	hto	the c	Louds	Tornado, Hail nway 61 crossing do skipped along house roofs The hail d several bean	Belvo-Deer Park - 5NE Sigourney, Keokuk County	on cam	ouple wa an outdo	s str or gr th we	11 un re kno	llig der	htni a tr	ng wh ee, a	lle p	Lightning reparing supper 20 feet from a nd remained so	
5S Tiffin, John- son County	fie 10 Lig was	2:20a htning s	truck	a lig	0 htmi he 1	0 ng r ight	5 pd.	0 A pro	Lightning pane gas line The line	5N Lynnville, Jasper County	hai soy	arge thu 1 the si beans.	nders ze of	golf	þall 	ove 5 to	seve 	area rely	Hail producing large damage corn and	
4W Bancroft, Kossuth County	Fla 14 Tor	hes then	spre	ad eng	ulfi 0 ovin	ng t	he en	ire 0 king		2SE Farragut, Fremont County	Tor cho fou	nd over	a mil	e to t	rief h br he s	puth	east.		Tornado hine shed and ted. Debris was Tornado	
2E Eagle Grove, Wright County	lea 15 Pol	ving cor	h cri 1/2 ted	bs on 10 funne1	eith 0 clo	ers O ud t	ide o 0 puche	f pat 0 d dow	n. Tornado n in an open	Lyon County Dedham, Carroll County	Tor lif 22 Lig	ted back 12:10p	ched into	the c	rief Loud 1 whe	ly i F. 1 h it	h a p The t 0 stru	astur prnad 0 k a	e and then b was moving SE. l Lightning tree he was	
North Central and Central Iowa	14 - 15	11:00p -3:00a			0	2	7	7	Severe thunder- storms, Hail, Heavy rain, Lightning	3NE Cherokee, Cherokee County	and 24 A s	knocked 8:30p	unco i under	nsciou 	s, b	ut r	evive 4 hail	b min 6 that	der the tree tes later. Hail destroyed a eans. Cars were	
	men	tioned i	n a f	bur ho	ur p	erio	d. T	hese prope	ver the area storms did con- rty and also d separately. s of crops. s, downed power d out-buildings	St. Ansgar, Mitchell County	dam was 25	alged as lalso da l 9:30a	well maged	s win	Bows	bro 0	ken.	Sidi O	ng on houses Severe thunder- storm, Wind	
	fac	tor in c	root ausir grour	s of m	any s an h tr	pous li pe livel	es. rsona ed al	l inj ong a	brylightning sprinkler		เพลร	h of the	equi rably	oment damag	insi ed.	de. As w	The	roof s equ	ng shop damaging of a lumber yard ipment in a d, falling on	
	IA D	arn was	LOST	alono	MICL	I mac	urner	y and	th to mouth has suffered uck several uilding 2SE nd destroyed. tractor 5NE	2W Rockwell City, Calhoun County	wes	unnels w t. Seve	ere s	mes t	hey 	dipp 	ed bu		Funnels City moving not touch	
	Max	well (St troyed w	pry (φ.) Lightni	ng s	th ho	use 6 k an	ingro	bster City was unded TV antennal h Butler County with rains of was under water wer stranding		The	tornado 5:45p	ouche then 	d down went 	back 	efly int	in a p the	past	Tornado bre moving east. ds. Funnels E. The three	
Ames, Story County	15	7:15p	dahti	na ca	o The c	5 025 0	0 f the	0 side	 Lightning of a thunder- benter and left	Webster County Southwest, Central and Eastern Iowa	dir	1:00- 4:00a	mitt			aid		ouch 5		
8N Estherville to NE Armstrong, Emmet County	fie nor	eld. Fiv ne seriou 5:00-	# 11t #1y 	ttle le	ague	pla 0	yers	were	injured, but		the cro Lak sev	State c ps. A f ewood (W eral tim	ausin Wnnel arren es in	cons cloud Co.) and o	ider was wovi	able obs ng e f th	dama erved ast. e clo	h man ge to at 1 The uds b	v sections of property and 00 a.m. from funnel dipped efore dissipa-92 mph at	
Emmet Country	wid of clo	torn and	mile soyt lso i	long a peans v reporte panie	rea. Mere 33 33 1 the	An seve of sto	esti rely Dolli rm up	hated damag ver m	10,000 acres ed. A funnel bving east. hg trees which		Ced wer The man	ar Rapid e uproot wind al y airpla age to t	s were ed the so bla nes was ne ha	reco t fel ew out re fl gars.	ded on man ippe In	pow Y wi d ov Ath	n Des er li hdows er wi elsta	Moin nes, In th co	es many trees houses and cars. Cedar Rapids Siderable Taylor County	
Sioux City (Wood- bury Co.) to Rock- well City to Webster City (Hamilton Co.)	17 A 8	4:05- 7:30a	I	rstorm	rava	ned	its w	ay th	Severe thunder- storm, Hail, Wind rough six		fat gla the hou	her was ss stri wind up ses. So	also king roote be ba	injure the fa tree ns an	d at rmer s fa d ou	his in 11in	farm the h g on ildin	when ead. power as we	man. The man's wind broke In other areas lines, cars and re blown down. (Co.) was tossed	
(Hamilton Cory	of In gol	windows, tda Grov course inches	dama e (Id by p deep	rs and aged ca da Co.) putting ol In	lar lar hur Hami	es hd d be h dred ltor	estro	pall yed a pmage bles ty ha	size hail and hich fell on broke thousands tres of crops. d the local 4 inches wide all destroyed ea from Webster 1 (Buena Vista	Montezuma, Poweshiek County	to at 26 The wes at the	its side the time 1:41a tornado t to sou tops. T	3/4 skip theas the to	l 100 ed al nado house	t th	tre 1 1 ts ts the	tasn 6 path dined he co	0 trave most urtho	Tornado ing from north- of the damage was damaging f. At this time	
Allamakee, Howard, Winneshiek and Black Hawk Countie	bas out	3 3 inc ements, crops a 8:30- 11:00a	hes of swell he fl	of raing cr	fel eeks fie 0	ove lds.	the	nour ir ba	flooding many nks, washing Heavy rain 		a m his	an was i	he w	near	the	new	hous	e whe	a tree fell on some scuba	
5N Oskaloosa near Highway 63,	flo swe bri 17	oded man lied out dges. C j 5:00p	of tops	heir k were a 10	and banks	wash	ents. hing ed aw 4	Man out m	an hour or less y streams any roads and Tornado nd cutting off p ripped a hole						i 				 	
Mahaska County	lin	the midd	le of	f¦the :	coof	φ£ a	mach	nine s	hed while the				<u> </u> - -							

		CAL	РАТН	Ę		OF SONS	ESTIM.	ATED† IAGE				CAL	РАТН	Ĕ		. OF		ATED [†]	
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF P	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
LATE REPORTION IOWA (continued		3	JUNE	1978			 	•		LATE REPO			1	1978 j	i		 		
Northwest, North Central, Central, Southeast and Eastern Iowa	28	11:30a			0	0	7	7	Severe Thunder- storms, Hail, Wind, Heavy rain	WESTERN Lewistown	m	Aftn.	nd a	church	0 wer	0 e st	mick	by li	Lightning ghtning during suffered exten-
Edstern 10wa	of cro	the Stat	е саи Нитьо	sing e 1dt (H	xter umbo	sive 1dt	dama Co.)	ge to	h many sections property and ches of rain he city where	Bedford	siv	damage	ersto.	шо• т	0	0	?		Lightning
	wat sho	er was u ulders w luding t	p to ere w he lo	the fi ashed cal ra	re h away dio	ydra • M stat	nts. any h ion.	Many aseme The	road and road nts were flooded tower of the	م د د د د د د د د د د د د د د د د د د د	One dam 26	home wa age due 3:30pm	s str to fi	nck by re the	lig reaf	ter.	ng an ! !?	nisuf 	fered heavy Lightning
	(Lo sch 73	uisa Cou ool roof mph were	nty) off.	high w In C	inds ttur The	ble wa (se w	w a p Wapel inds	ortic 10 Cc blew	In Morning Sun n of the high .) winds of in windows in	Carmichaels (Greene County) Rochester Twnshp.	Two	houses 6:30pm	were	i struck I	ľ	l .	1	 - 	Lightning
	in (Ko	ition to 1/2 hour ssuth Co	blow whice) al	ing do h caus 1 90 w	vn t ed π indo	rees uch ws c	. 1. urban n the	4 inc floc west	hes of rain fell ding. In Fenton of the senior	(Beaver County)	Lig the	htning s tower t	truck hroug	a bri n an a	djac I	jent I	bullo	ing r	
	2 t	o 4 inch	es of	rain n floc	fell dinc	in whi	1½ ho ch st	urs. rande	These rains d cars, flooded ngo (Iowa Co.) ne Co.) golf	White Oak (Allegheny Co.)	Lie	Eve.	l truck	a hou	se a	i	1	abla	Lightning ze. Lightning
	ba1	1 size h aking wi	ail c	overed	str	cets	dama	ging	cars and crops near the	Chalk Hill	A	puth was the area			nen s	truc	k by	light	ning. Two homes
PENNSYLVANIA EASTERN Chester County	1	4 to 5		}	0	0 !	4		Wind	North Beaver Township	27 A w	3pm ood-fram ike trig	bar gered	h burn a fir	i O ded t	0 th	e gro	i	Lightning ter a lightning
		PM EDT	l - wind	 gusts	lleft	a	ath c	f dar	age from Lewis-	Johnstown	27 One	 4pm man was qugh a w	inju	red wh	o en a	1 n ou	tside	:	Thunderstorm was blown
	vill tree and larg	e to Hor s were u power li	eviil proot nes d	le in s led or lowned.	outh brol Mar	west en o	ff, 1	ter (ounty. Many were damaged d trees were an automobile.	Wimmerton (Westmoreland Co)	27 An	4:30pm	ll of	 a dup bnders	0 Lex	in a	hous	Seco	Thunderstorm roject collapsed nd wall was lists of 74 mph
PENNSYLVANIA WESTERN Sugar Hill and	A 7	l 9pm	?	?	0	0	5	?	 Tornado	Youngstown (Westmoreland Co)	wer 27	e record	ed at	the I	atro	be A	irpoi	0	usts of 74 mph Thunderstorm
Brockway	lfror	it porch	desta	doved t	tear	!t.he	ltown.	of Si	house and the gar Hill. Three uprooted trees Penelec sub- morses were re-		aga pol	inst at e onto t	s in eleph he mo	thunde bne po bile h	le. Dme	A tr	ansf •	rmer	bbile home fell from the
Rochester Mills	stat port 7	ion in sed miss:	ugar ing ai	Hill to	nje si I	recl orm	ted. 1	1	torses were re-	Markleton (Somerset Co.)	Hig A s	winds	in the	i unders home w	torn as n	ds over	ertu	ned a its f	Thunderstorm mobile home. bundation.
(Indiana County)	Seve	∳ral tre 	s we	e upr	∳ote I	1.		İ	tornado.	Punxsutawney	27 Lig	3pm htning s damaged	truck phon	 awha b line	0 erenc	ouse,	? sta wha	0 nted a dehous	Lightning small fire,
Kittanning	A mo a me roan	9pm bile hor tal gara red thro	e was ge si gh th	demo	ish	d, teavy	trees Idama	were	Tornado uprooted, and en a tornado of Route 422. s, and a por- g was under one	Latrobe	Lig	4:15pm thing s barn ar							Lightning hich destroyed
Upper Harmony	and	of Nordone-hal:	¶ £reet ∖	ferso	t St ater	for	Kitti a tir	pe.	was under one	Orchardville	Sti	3:15pm cong thur	plerst	prm wi	0 inds	0 ripp	? ded t	0 he roo	Thunderstorm f and porch
(Butler County)	Thre	1 -	home er mol	es wer bile h	1	_		1	tornado struck. touse also	Guilford Twnshp. (Franklin Co.)	27 Thi	? nee Girl:	 s were	treat	tied a	i 3 and 1	 ? elea	o sed fr	Lightning
Johnstown	17 Near	Early am	l nches	of ra	0 n f	e11 :	? In th	e vic	Heavy Rains inity of Johns-	Buena Vista (Butler County)	1i ₁ 27	ghtning. 3:30pm	Campe ?	etrs su: ¦?	flfer i 0	ekinı j1	utmbne !5	ss of	od was struck by extremities. !Tornado
	base floo Two	ement and ded D S tempora	d fir: treet	st-flo and a	br f doz	lood:	ing; eside	sever hts w	ausing some al feet of water ere evacuated. the Scalp Level	•	sid boy deb	ings of suffere	ut on two o d min e was	ther h or han headi	omes d la	era pr t	i, da d dow tions he ba	maged med 1 infl spemen	the roofs and arge trees. One cted by flying t of his home.
Greenville (Mercer County)	area 18	? ortion o	the	roof	o bf t	l O he Si	? henan	0 go Va	Thunderstorm	Titusville	27 Two sto	1pm cows we	re ki a tr	lled w	o then Gi	stru son	? i¢k by Rida	ligh	Lightning ning as they
Franklin	18 Two	4pm houses	in the	 - area age. A	0 wer	0 o sti er h	? uck ouse	y ? y li yas d	Thunderstorm and Lightning ghtning and sus- amaged when a	Huntingd <i>o</i> n	Wes	ley Chap sted off	¢l. T	he top	s of	ly sev	¢n la	the r	Tornado rral area of ne trees were pnto a mobile
Warren	18	335pm			0	0	?	?	Thunderstorm and Lightning					 					
Sharon	Wind 18	gusts 4pm	downer frack	smal	s e a	ees.	parte ?	ļ !	hall fire.					Ì 		1	1	Ì	
	are: One	a. A num mobile	ber o: home	f cars on Nic	wer hols	∌ cr Str	ushed eet w	by f as bl	maged in the blled trees. bwn over. Some large plate-bwn in.					 					

	LOCAL		РАТН	¥.		. OF SONS		IATED [†]	CHARACTER			CAL	РАТН	Ę	NO PER	. OF	DF ESTIMAT		
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	OF STORM	PLACE		TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
CORRECTION	S		MAY	1978						SOUTH DAKOT		ontinued	ال (JNE 19	78 0	į 0	4	3	l High Wind
NORTHERN		4:00 p - 5:00 p	Short	Narrow	0	0	3 4	; ? ; 0	Tornado Hailstorm	Campbell County	15	CDT 1			0	0	4	3	High Wind
	The!	northern	edge o	 f the t	l hunde	rstor	ms ent	i dered s		Edmunds County	15	CDT 1050 PM				0	 3	3	High Wind
]	aro	ind 4:50 p ind 5:00 p	l.m. A	small	torna	do ri	pped u	p tree	s in Arlington	McPherson County	15	CDT 1050 PM CDT			0	0	3	 3	High Wind
SOUTH DAKOTA	6	548 PM CDT	JUNE	1978	0	0	. 6	4	Tornado, Hail, High Wind	Corson, Campbell, Walworth, Potter, Sulley, Hughes, Mc Pherson, Edmunds,	16	Evening Early Morning							
McPherson County	6	620 PM			0	0	6	4	Tornado, Hail, High Wind	Faulk, Hyde, Hand, Buffalo, Jerauld, Spink, Marshall Counti	es.					i !			i
McPherson County	6' ົ	630 PM	 	! !	0	 0 	6	4	Tornado, Hail, High Wind	Spring rational country	Nume Dake	ta. Torna	ioes,	hail ra	nging	to I	daseba	ll size	of central South , and wind gusts timated near 20-
Hughes County	6	755 PM CDT	! ! !	[0	0	4	4	High Wind		25 the	illion do se countie	llars. s disa	The Go ster ar	verno eas.	r of Fift	South en pe	Dakota sons	declared some of ere injured. (See
Meade County	6	911 PM MDT	į į		0	0	4	3	High Wind	Meade County	24	i i			0	0	4	4	 Hail, High Wind
Jerauld County	6	1040 PM CDT	i 	[0	0	4	4	Hail	Gregory, Douglas and Charles Mix Counties	21	400 PM		·	0	0	4	3	 High Winds, Hail Funnel Clouds
Haakon County	6	1015 PM MDT	i 		0	0	4	3	High Wind			630 PM CDT				 .			60 4604 1 13
Perkins, Meade, Corson, Haakon, Stanley, Hughes Sulley, Potter, Faulk, Walworth, Edmunds, Campbell, McPherson, Brown and Marshall	6-7	4:00 PM to 5:00 AM		 				' 		Stanley, Hughes, Sulley, Potter, Faulk Edmunds, Brown, Day	thre or	ee-quarter deaths wer	e thun s inch e repo	derstor in siz rted; h	ns pre and pweve	oduce seven, the o	ed win eral f here w 4	to ne mnel d is	ar 60 MPH, hail, louds. No injuries property damage. High Winds, Hail Funnel Clouds
}	noon	of the 6	th and	contin	ued i	hto t	he mor	ning c	t during the after- f the 7th. Hail, usting to 70 MPH	& Marshall Counties	wide	CDT te aftern spread ha	il up	o golf	ball	Size	i I Ims pro and 1	duced unnel	l l winds near 70 MPH, clouds. Crop damage
	and from in t erty	tornadoes Marshall he west.	were Count No fa damag	reporte y in th talitie e was p	d in e nor s or aced	a lar theas injur near	ge sec t to F ies we sever	tion c erkins re rep milli	f the state ranging, and Meade Counties prted. Total prop- pn dollars. The	Potter, Walworth, Lincoln, Union and Beadle Counties	1	Afternoon and Evening		11011 G	0	0	4	5 5	Hail, High Winds
1	10			0.10 PG	i) 0	0	0	'Hail			tered sevi e countie							roperty damage in
									 meter, were reported d.	Hanson County	24	752 AM CDT			0	0	4	5	Tornado
		1230 AM to 0115 AM		 	0	0	3	4	Hail	Sanborn County	24	750 PM CDT			0	0	4	5	Tornado
	Seve The	CDT ral hail	storms cove	occurr red. Ma	 ed dr ny tr	 pppir ees	g hail window	 stones s and	, tennis ball size, automobiles were	Hanson, Sanborn, Davison, Turner Counti	24-2: les	600 PM to 230 AM			0	1	4 	6	High Wind, Hail
'		ged. 1043 PM MDT		 	0	0	0	?	High Winds		Seve	CDT ere thunde	rstorm	s produ	ced h	igh v	inds,	hail a	nd a tornado in the ty damage totaled
	Wind No d		i 161 MP Injuri	i H were Es were	repor repo	ted a	t Ells	worth	AFB near Rapid City	Charles Mix County		four mil				0	3	4	Tornado
, 1	15	650 PM MDT	_		0	0	5		Tornado High Wind, Hail	Lincoln County	25	CDT 1215 AM	İ		0	0	3	ā	High Wind, Hail
] [-	town	causing	consid	prable	prope	rty d	amage.	[Golf	skipping through	Meade County	25	CDT 340 PM			0.	0	3	3	High Wind
		injured. 725 PM	ne tor	nado. -	Wina 0	was e	stimat 5	! !	r 60 MPH. No one Tornado	Bon Homme, Yankton, Union, Lincoln and Clay Counties	25- 26	MDT 800 PM to			0	3	4	4	Hail, High Wind
	15	CDT 730 PM			0	0	. 5	3	Tornado	Jan Southern		1230 AM CDT	ļ			ļ			
	15 j	CDT 855 PM			0	0	5	4	Tornado		cou	nties. Sev	eral p	ersons s blown	recet	ved r	ninor	eastwa injurie and ci	rd through these s. A 450 foot radio op damage was es-
Brown County	15	CDT 1145 PM			0	15	5	4	Tornado, High Winds Hail	Bon Homme County	tim 25	ated as hi 930 PM CDT	yn as	six mil	110n 0	do11; 0	rs. 6	6	Tornado
Marshall County	16	220 AM CDT			0	0	5	4	Tornado	Perkins County	30	440 PM MDT			0	0	0	0	Tornado
•	15	710 PM CDT 740 PM			0	0	4	4	Hail Hail		A to	rnado was ries were	repor repor	ed by l	aw ei	forc	ement	spotte	rs. No damage or
1. Sectionally	15	740 PM CDT 700 PM				0	5	4	Hail	WASHINGTON Pierce County	12	3:30 PM	11/2				4		Tornado

		CAL	PATH	Ę	NO. OF ESTIMATED PERSONS DAMAGE							CAL	РАТН	Ŧ	NO. OF PERSONS		ESTIMATED! DAMAGE		
PLACE	DATE	TIME - LC STANDARD	LENGTH OF I	WIDTH OF PA (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LO STANDARD	LENGTH OF !	WIDTH OF PA (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM

- Includes crop damage.
 Crop damage.
 Miles instead of yards.
 Yards instead of niles.
 Storm damages are placed in categories varying from 1 to 9 as follows:
 1 Less than \$50
 2 \$50 to \$500
 3 \$500 to \$50,000
 4 \$5,000 to \$50,000
 5 \$50,000 to \$50,000
 6 \$500,000 to \$500,000
 6 \$500,000 to \$500 Million
 7 \$5 Million to \$50 Million
 8 \$50 Million to \$50 Million
 9 \$500 Million to \$ 5 Billion

Note: This publication contains our best information on storms but, due to the difficulties inherent in collection of the type of data, it is not all-inclusive. Late Reports and Corrections will be carried in the month following receipt of these data.

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